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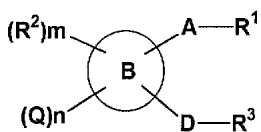
(74)

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(54)

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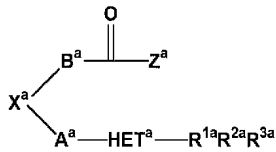
R¹ COOH, COOR⁶; A , ; R² , ; B , ; Q -Cyc2 ; D ; R³ ,

(I) PGE₂ , EP₃ / EP₄ ,

(A) WO99/47497

(A)

(A)

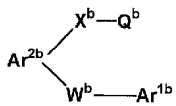


[HET^a 5 12 , ; A^a 1 2 ; X^a 5 10 , R^{14a} R^{15a} ; B^a -(C(R^{18a})₂)_{pa} -Y^a -(C(R^{18a})_{qa})_{pa} ; R^{1a}, R^{2a} R^{3a} , ,]

(B) WO00/20371

(B)

(B)



[Ar^{1b} ; W^b 0 2 ; R^{3b} 3 6 ; AR^{2b} R^{3b} , CHF₂, CF₃, (C1-6), N(R^{5b})₂, C(R⁶)₃ ; X^b ; Q^b COOH, , SO₃H, , CONHSO₂R^{12b}, SO₂NHCOR^{12b} .]

PGE₂ ,

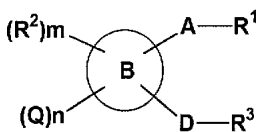
EP₃ / EP₄ (I) ,

(1) (I) ,

(2) ,

(3) :

(I)



R¹ -COOH, -COOR⁴, -CH₂OH, -CONR⁵SO₂R⁶, -CONR⁷R⁸, -CH₂NR⁵SO₂R⁶, -CH₂NR⁹COR¹⁰, -CH₂NR⁹CONR⁵SO₂R⁶, -CH₂SO₂NR⁹COR¹⁰, -CH₂OCOR⁵SO₂R⁶, , 1,2,4- -5- , 1,2,4- -5- , 1,2,4- -5- , 1,3- -2- , 1,2,3,5- -2- ,

R⁴ C₁ 6 -(C₁ 4)-R¹¹ ,

R¹¹ , C₁ 4 , -COOH, C₁ 4 , -CONR⁷ R⁸ ,

R⁵ C₁ 6 ,

R⁶ (i) C₁ 6 ,

(ii) 1 5 R¹² C₃ 15 , 3 15 ,

(iii) 1 5 R¹² C₃ 15 , 3 15 ,
 C₁ 6 , C₂ 6 C₂ 6 ,

R⁷ R⁸ , (i) ,

(ii) C₁ 6 ,

(iii) ,

(iv) -COR¹⁷ ,

(v) 1 5 R¹² C₃ 15 , 3 15 ,

(vi) 1 5 R¹² C₃ 15 , 3 15 ,
 C₁ 4 ,

R⁹ C₁ 6 ,

R¹⁰ (i)

(ii) C₁ 6 ,

(iii) 1 5 R¹² C₃ 15 , 3 15 ,

(iv) 1 5 R¹² C₃ 15 , 3 15 ,
 C₁ 6 , C₂ 6 C₂ 6 ,

R¹² (a) C₁ 6 , (b) C₁ 6 , (c) C₁ 6 , (d) , (e) CF₃ , (f) , (g) ,
 (h) , (i) -COOR¹³ , (j) -NHCOR¹³ , (k) -SO₂ R¹⁴ , (l) -NR¹⁵ R¹⁶ , (m) C₁ 4
 C₃ 7 , (n) C₁ 4 3
 7 C₁ 4 , (o) , -COOR¹³ , -NHCOR¹³ , -SO₂ R¹⁴ , -NR¹⁵ R¹⁶

R¹³ , C₁ 4 , (C₁ 4) ,

R¹⁴ C₁ 4 ,

R¹⁵ R¹⁶ , C₁ 4 , (C₁ 4) ,

R¹⁷ C₁ 4 ,

A (i) ,

(ii) C₁ 6 ,

- (iii) C2 6 ,
- (iv) C2 6 ,
- (v) -O-(C1 3),
- (vi) -S-(C1 3),
- (vii) -NR 20 -(C1 3),
- (viii) -CONR 21 -(C1 3),
- (ix) -(C1 3)-O-(C1 3),
- (x) -(C1 3)-S-(C1 3),
- (xi) -(C1 3)-NR 20 -(C1 3),
- (xii) -(C1 3)-CONR 21 -(C1 3),
- (xiii) -Cyc1,
- (xiv) -(C1 4)-Cyc1,
- (xv) -Cyc1-(C1 4) ,
- A , (a) (i) , (a) C1 6 , (b) C1 6 , (c) 1 6 ,
 (d) CHF 2 , (e) CF 3 , (f) OCHF 2 , (g) OCF 3 , (h) , (i) (C1 4)
- R 20 , C1 4 , -SO 2 (C1 4) , C2 5 ,
- R 21 C1 4 ,
- Cyc1 C1 6 , C1 6 , C1 6 1 4 , C2 6 , C2 6 , C3 7 , CHF 2 , CF 3 , 3
- 7 ,
- B C3 12 , 3 12 ,
- R 2 C1 6 , C1 6 , C1 6 , C2 6 , C2 6 , CHF 2 , CF 3 ,
- , , ,
- m 0, 1 2 ,
- D-R 3 -A-R 1 B , n 1 2 ,
- D-R 3 -A-R 1 B , n 0, 1 2 ,
- Q
- (1) (i)-(C1 4 , C2 4 C2 4)-Cyc2,
- (ii) -(C1 4)-Z-Cyc3,
- (iii) -NR 24 R 25 , -S(O) p R 26 , , -NR 23 COR 27 , -NR 23 SO 2 R 28 -NR 23 CONR 24 R 25
 C1 4 ,

(iv) C1 4 (C1 4), -NR²³ COR²⁷, -COR²⁸, -OSO₂ R²⁸, -NR²³ SO₂ R²⁸ -NR²³ CO NR²⁴ R²⁵,

(v) 1 5 R³⁰, 1 R³⁰ 1
C3 7, 3 6,

(vi) 1 5 R³⁰ C8 15, 7 15

(vii) -T-Cyc5,

(viii) -L-Cyc6-1, -L-(C3 6), -L-CH₂-(C3 6), -L-(C2 4)-Cyc6-2 -L-(
C1 4) q -Cyc6-3 (, C3 6 1 5 R³⁰),

(2) (i),

(ii),

(iii) (C1 4),

(iv) C1 4 (C1 4),

(v) -(C1 4)-O-

(3) (i) C2 6,

(ii) C2 6,

(iii) 1 3 C1 6,

(iv),

(v),

(vi) -NR³³ R³⁴,

(vii) -CONR³³ R³⁴,

(viii) -S(O)_p-(C1 4),

(ix) -S(O)_p-CHF₂,

(x) -S(O)_p-NR³³ R³⁴,

(xi) -O-(C3 6),

(xii) -O-CHF₂,

(xiii) C3 7,

R²², C1 4, -SO₂-(C1 4) C2 5,

R²³, C1 4, (C1 4),

R²⁴ R²⁵, C1 4, Cyc4 (C1 4)-Cyc4,

R²⁶ C1₄ Cyc4 ,

R²⁷ , C1₄ , -OR²⁹ Cyc4 ,

R²⁸ C1₄ , Cyc4 -(C1₄)-Cyc4 ,

R²⁹ , C1₄ , Cyc4 (C1₄)-Cyc4 ,

R³⁰ C1₈ , C1₈ , C1₈ , CF₃ , OCF₃ , SCF₃ , CHF₂ , OCHF₂ , SC
HF₂ , , , , -NR³¹ R³² , -CONR³¹ R³² , , C2₅ , (C1₄) , C1₄
(C1₄) , C1₄ (C1₄) , -(C1₄)-CONR³¹ R³² , -SO₂ (C1₄) , -NR²³
CO-(C1₄) , -NR²³ SO₂ -(C1₄) , , C3₇ , 3₇ , -(C1₄
4)-NR³¹ R³² , -M-(C3₇)) -M-(3₇)) ,

R³⁰ C3₇ 3₇ 1₅ (a) (l) , , (a) C1₆
, (b) C2₆ , (c) C2₆ , (d) C1₆ , (e) C1₆ , (f) , (g) CHF₂ , (h)
CF₃ , (i) , (j) , (k) , (l) ,

M -O-, -S-, C1₄ , -O-(C1₄)-, -S-(C1₄)-, -(C1₄)-O-, -(C1₄
)-S- ,

R³¹ R³² C1₄ ,

Cyc2 1₅ R³⁰ C3₁₅ , , 3

Z -O-, -S(O)_p -, -NR²² -, -NR²³ CO-, -NR²³ SO₂ -, -NR²² -(C1₄)-, -S(O)_p -(C1₄
)-, -O-(C2₄)-, -NR²³ CO-(C1₄) , -NR²³ SO₂ -(C1₄)) ,

p 0, 1 2 ,

Cyc3 1₅ R³⁰ C3₁₅ , , 3

Cyc4 1₅ R³⁰ C3₁₂ , , 3 12

T -O-, -NR²² -, -O-(C1₄)-, -S(O)_p -(C1₄)-, -NR²² -(C1₄)-

Cyc5 1₅ R³⁰ 3₁₅ , ,

q 0 1 ,

L -O- -NR²³ - ,

Cyc6-1 1 R³⁰ ,

Cyc6-2 1₅ R³⁰ C3₆ , ,

Cyc6-3 1₅ R³⁰ C7₁₅ , ,

R³³ R³⁴ , C1₄ , ,

NR³³ R³⁴ 1 3 6 , , 1

D (1) , , 1 2 ,
1 4 R 40

(2) , , 3 6 ,
가 R 3 R 40 R 3 1 12 R 40 R 42 -(CH 2) y -(,
, y 1 4) ,

(3) , , 7 10 ,
가 R 3 가 R 40 R 3 1 20 R 40 R 42 -(CH 2) y - ,

R 40 (a) C1 8 , (b) C2 8 , (c) C2 8 , (d) , (e) , (f) CF 3 , (g) , (h)
C1 6 , (i) C2 6 , (j) C2 6 , (k) OCF 3 , (l) -S(O) p -(C1 6) , (m) -S(O) p -
(C2 6) , (n) -S(O) p -(C2 6) , (o) C2 5 , (p) Cyc9, (q) C1 4 (C1 4) , (r)
, CF 3 , OCF 3 , , C1 4 , -S(O) p -(C1 6) , Cyc9 C1 4 (C1 4)
, 2 R 40 C1 8 , C2 8 C2 8
SO 2 N C1 4 1 2 C3 15 , O, S,
, C1 4 , C1 4 , C2 5 , SO 2 (C1 4) , (C1 4)
1 3 ,

Cyc9 1 5 R 41 C3 6 , 3 6

R 41 C1 4 , C1 4 , C1 4 , C1 4 (C1 4) , , CF 3 , OCF 3 , SCF
3 , , , C2 5 , -SO 2 -(C1 4) , -NR 23 CO-(C1 4) ,

R 3 (1) C1 6 ,

(2) 1 5 R 42 C3 15 , , 3 15

R 42 (a) C1 6 , (b) C1 6 , (c) C1 6 , (d) , (e) , (f) CF 3 , (g) CHF 2
, (h) OCF 3 , (i) OCHF 2 , (j) SCF 3 , (k) -NR 43 R 44 , (l) -SO 2 R 45 , (m) -NR 46 COR 47 , (n) , (o)
, (p) C1 4 (C1 4) , (q) Cyc10, (r) C1 6 -Cyc10, (s) -CO-Cyc10, (t) -W-Cyc10, (u) -(
C1 6)-W-Cyc10, (v) -W-(C1 6)-Cyc10, (w) -(C1 6)-W-(C1 6)-Cyc10

R 43 R 44 C1 4 ,

R 45 C1 4 ,

R 46 C1 4 ,

R 47 C1 4 ,

Cyc10 (a) (j) , , (a) C1 4 , (b) C2 5 , (c) C1 4 , (d)
, (e) , (f) C3 12 , (g) , (h) , (i) CF 3 , (j) OCF 3 1 5
3 12 ,

W -O-, -S(O) p - -NR 48 - ,

R 48 C1 4 .

, C1 4 , , , .

, C1 6 , , , , , .

, C1 8 , , , , , , , , .

, C2 6 , , , , , .

, C2 8 , , , , , , , , .

, C2 6 , , , , , .

, C2 8 , , , , , , , , .

, C3 6 , , , , , .

, C1 4 , , , , , .

, C1 6 , , , , , , , .

, C1 8 , , , , , , , , , , .

, C1 4 , , , , , .

, C1 6 , , , , , , , , .

, C1 8 , , , , , , , , , , , .

, (C1 4) , , , , , .

, (C1 4) , , , , , .

, C1 4 (C1 4) , , , , , , , , , .

, C1 4 (C1 4) , , , , , , , , , .

, C1 4 (C1 4) , , , , , , , , , .

, C1 4 , , , , , , , , , .

, C1 3 , , , , , .

, C1 4

, C1 6

, C2 6

1 2

, C2 6

1 2

, C2 5

, C3 6

C3 6

, C3 7

, 3 6

3 6

1 4

, 1

/ 1

, O, S, SO₂ N

1

2

3 7

-1,1-

-1,1-

-1,1-

-1,1-

-1,1-

, 1

1
1

3 6

1 2

, 1

1

3 6

, C3 7

, C3 7

, 3 7

3 7

, 1 4

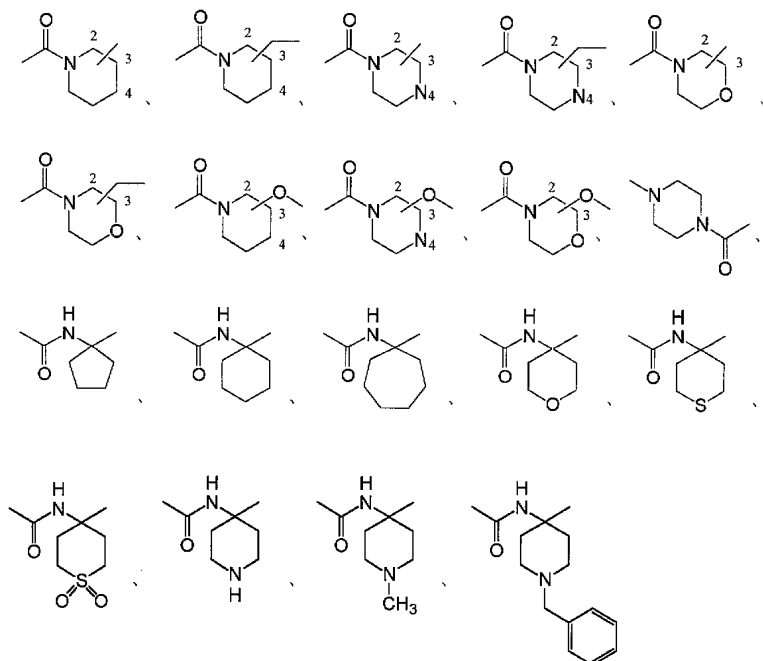
, 1

/ 1

, C7 15

, 1, 7 15, 1, 1, 1, 4, 1, 2, 1, 7 15, 1, 1, 3-, C3 12, C3 12, 3 12, 3 12, 1, 4, 1, 2, / 1, 1, 3-, C3 15, C3 15, 3 15, 3 15, 1, 4, 1, 2, / 1, 1, 3-, 1 4 R 40, -C(R 40) u -, -G-, -C(R 40) u -C(R 40) u -, -CH=CH-, -C C-, -G-C(R 40) u -, -C(R 40) u -G-, -NHCO-, -NR 40-1 CO-, -NHSO 2 -, -NR 40-1 SO 2 -, -CONH-, -CONR 40-1 -, -SO 2 NH-, -SO 2 NR 40-1 -(, u 0, 1 2, G -O-, -S-, -SO-, -SO 2 -, -NH-, -NR 40-1 -, -CO-, R 40-1 C1 8, C2 8, -S(O) p -C1 6, -S(O) p -C2 6, -S(O) p -C2 6, C2 5, Cyc9, CF 3, OCF 3, C1 4, -S(O) p -(C 1 6), Cyc9 C1 4, (C1 4), 1 2, C1 8, C2 8, 3 6, 1 12 R 40

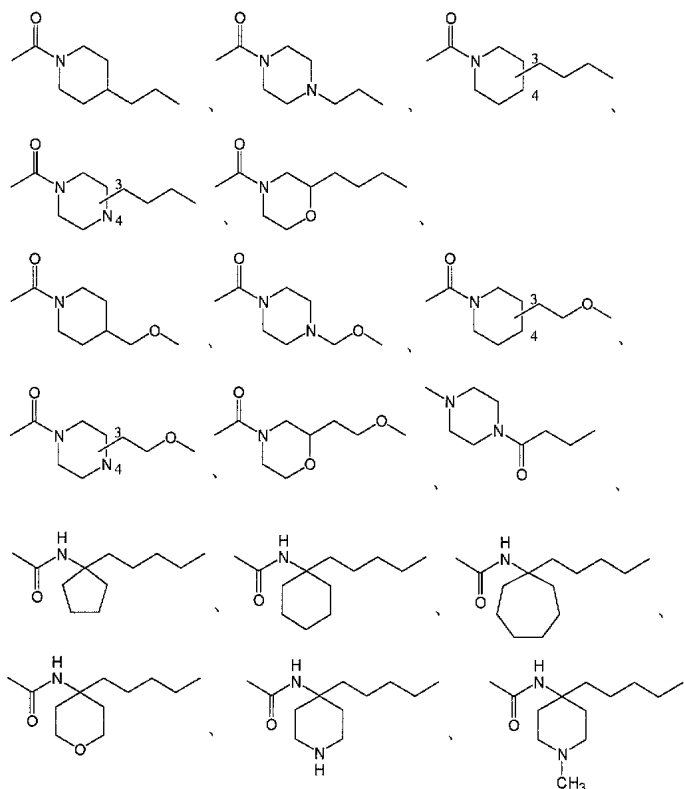
-[C(R 40) u] 3 -, -[C(R 40) u] 4 -, -[C(R 40) u] 5 -, -[C(R 40) u] 6 -, -CH=CH-C(R 40) u -, -CH=CH-[C(R 40) u] 2 -, -C C-C(R 40) u -, -C C-[C(R 40) u] 2 -, -C C-C(R 40) u -, -C C-C(R 40) u -, -C C-, -[C(R 40) u] 2 -C C-, -[C(R 40) u] 2 -G-, -[C(R 40) u] 3 -G-, -[C(R 40) u] 4 -G-, -[C(R 40) u] 5 -G-, -G-[C(R 40) u] 2 -, -G-[C(R 40) u] 3 -, -G-[C(R 40) u] 4 -, -G-[C(R 40) u] 5 -, -E-C(R 40) u -, -E-[C(R 40) u] 2 -, -E-[C(R 40) u] 3 -, -E-[C(R 40) u] 4 -, -C(R 40) u -G-C(R 40) u -, -C(R 40) u -E-C(R 40) u -, -G-C(R 40) u -G-, -G-[C(R 40) u] 2 -G-, -G-[C(R 40) u] 3 -G-, -G-[C(R 40) u] 4 -G-, -G-C(R 40) u -E-, -G-[C(R 40) u] 2 -E-, -G-[C(R 40) u] 3 -E-, -G-C(R 40) u -E-C(R 40) u -, -G-[C(R 40) u] 2 -E-C(R 40) u -, -G-C(R 40) u -CH=CH-, -G-[C(R 40) u] 2 -CH=CH-,



(, E -NHCO-, -NR⁴⁰⁻¹CO-, -NHSO₂-, -NR⁴⁰⁻¹SO₂-, -CONH-, -CONR⁴⁰⁻¹-, -SO₂NH-, -SO₂NR⁴⁰⁻¹-) , ,

7 10
1 20 R⁴⁰

-[C(R⁴⁰)_u]₇-, -[C(R⁴⁰)_u]₈-, -[C(R⁴⁰)_u]₉-, -[C(R⁴⁰)_u]₁₀-, -CH=CH-[C(R⁴⁰)_u]₅-,
 -[C(R⁴⁰)_u]₅-CH=CH-, -C C-[C(R⁴⁰)_u]₅-, -[C(R⁴⁰)_u]₅-C C-, -[C(R⁴⁰)_u]₆-G-, -[C(R⁴⁰)_u]₇-G-,
 -[C(R⁴⁰)_u]₈-G-, -[C(R⁴⁰)_u]₉-G-, -G-[C(R⁴⁰)_u]₆-, -G-[C(R⁴⁰)_u]₇-,
 -G-[C(R⁴⁰)_u]₈-, -G-[C(R⁴⁰)_u]₉-, -E-[C(R⁴⁰)_u]₅-, -E-[C(R⁴⁰)_u]₆-, -E-[C(R⁴⁰)_u]₇-,
 -E-[C(R⁴⁰)_u]₈-, -C(R⁴⁰)_u-G-[C(R⁴⁰)_u]₅-, -[C(R⁴⁰)_u]₅-G-C(R⁴⁰)_u-, -C(R⁴⁰)_u-E-[C(R⁴⁰)_u]₄-,
 -[C(R⁴⁰)_u]₄-E-C(R⁴⁰)_u-, -G-[C(R⁴⁰)_u]₅-G-, -G-[C(R⁴⁰)_u]₆-G-, -G-[C(R⁴⁰)_u]₇-G-,
 -G-[C(R⁴⁰)_u]₈-G-, -G-[C(R⁴⁰)_u]₄-E-, -G-[C(R⁴⁰)_u]₅-E-, -G-[C(R⁴⁰)_u]₆-E-, -G-[C(R⁴⁰)_u]₇-E-,
 -G-[C(R⁴⁰)_u]₃-E-C(R⁴⁰)-, -G-[C(R⁴⁰)_u]₄-E-C(R⁴⁰)-,



(,) .

, , , , (E, Z, , ,),

(D, L, d, l), (R, S , , , , ,),

(I) , ,

[I] n 1 2 ,

Q가 (1) (i) -(C1 4 , C2 4 C2 4)-Cyc2,

(ii) -(C1 4)-Z-Cyc3,

(iii) -NR²⁴R²⁵, -S(O)_pR²⁶, , -NR²³COR²⁷, -NR²³SO₂R²⁸, -NR²³CONR²⁴R²⁵
C1 4 ,

(iv) C1 4 (C1 4) , -NR²³COR²⁷, -COR²⁸, -OSO₂R²⁸, -NR²³SO₂R²⁸ -NR²³CO
NR²⁴R²⁵ ,

(v) 1 5 R³⁰ , 1 R³⁰ 1
C3 7 , 3 6 ,

(vi) 1 5 R³⁰ C8 15 , , 7 15

(vii) -T-Cyc5,

(viii) -L-Cyc6-1, -L-(C2 4)-Cyc6-2 -L-(C1 4)_q-Cyc6-3 ,

D가 (1) , , , , 1 2 , , 1 4 R 40 ,

(2) , , , , 3 6 , , 1 12 R 40 , , R 40 R 3 R 42 -(CH 2) y -(, y 1 4 , R 3) , ,

[II] n 1 2 ,

Q가 (2) (i) ,

(ii) ,

(iii) (C1 4) ,

(iv) C1 4 (C1 4) ,

(v) -(C1 4)-O-(C1 4)-Cyc7 ,

D가 (2) , , , , 3 6 , , 1 12 R 40 , , R 40 R 3 R 42 -(CH 2) y , 가 , R 3 , -(, y 1 4) , ,

[III] n 1 2 ,

Q가 (3) (i) C2 6 ,

(ii) C2 6 ,

(iii) 1 3 C1 6 ,

(iv) ,

(v) ,

(vi) -NR 33 R 34 ,

(vii) -CONR 33 R 34 ,

(viii) -S(O) p -(C2 4) ,

(ix) -S(O) p -CHF 2 ,

(x) -S(O) p -NR 33 R 34 ,

(xi) -O-(C3 6) ,

(xii) -O-CHF 2 ,

(xiii) C3 7 ,

D가 (1) , , , , 1 2 , , 1 4 R 40 ,

[IV] n 0 ,

D가 (1) , , $\begin{matrix} 1 & 2 \\ 1 & 4 \end{matrix} R^{40}$, ,

(2) , , $\begin{matrix} 3 & 6 \\ 1 & 12 \end{matrix} R^{40}$, , , $R^{40} R^3 R^{42} -(CH_2)_y - ($
 가 , R^3 , y 1 4) ,

[V] n 0, 1 2 ,

Q가 (1) (i) -(C1 4 , C2 4 C2 4)-Cyc2,

(ii) -(C1 4)-Z-Cyc3,

(iii) -NR²⁴R²⁵, -S(O)_pR²⁶, C1 4 , -NR²³COR²⁷, -NR²³SO₂R²⁸, -NR²³CONR²⁴R²⁵

(iv) C1 4 (C1 4) , -NR²³COR²⁷, -COR²⁸, -OSO₂R²⁸, -NR²³SO₂R²⁸ -NR²³CO NR²⁴R²⁵ ,

(v) 1 5 R³⁰ , 1 R³⁰ 1
 C3 7 , 3 6 ,

(vi) 1 5 R³⁰ C8 15 , 7 15

(vii) -T-Cyc5,

(viii) -L-Cyc6-1, -L-(C2 4)-Cyc6-2 -L-(C1 4)_q-Cyc6-3,

(2) (i) ,

(ii) ,

(iii) (C1 4) ,

(iv) C1 4 (C1 4) ,

(v) -(C1 4)-O-(C1 4)-Cyc7,

(3) (i) C2 6 ,

(ii) C2 6 ,

(iii) 1 3 C1 6 ,

(iv) ,

(v) ,

(vi) -NR³³R³⁴ ,

(vii) -CONR³³R³⁴ ,

(viii) -S(O)_p-(C2 4) ,

(ix) -S(O)_p-CHF₂,

(x) -S(O)_p-NR³³R³⁴,

(xi) -O-(C₃₋₆),

(xii) -O-CHF₂,

(xiii) C₃₋₇,

D가 (3) , , 7 10 ,
 , 가 R³ , R⁴⁰ R³ R⁴⁰ R⁴² -(CH₂)_y -

[III] , D가-NR⁴⁰⁻²CO- -NR⁴⁰⁻²CS-(, R⁴⁰⁻² H, C₁₋₈) , Q가 1 3 C₁₋₆ , A (i) , (ii) C₁₋₆ , (iii) C₂₋₆ , (iv) C₂₋₆ , (v) -O-(C₁₋₃) , (vi) -S-(C₁₋₃) , (vii) -NR²⁰-(C₁₋₃) , (viii) -CONR²¹-(C₁₋₃) , (ix) -(C₁₋₃)-O-(C₁₋₃) , (x) -(C₁₋₃)-S-(C₁₋₃) , (xi) -(C₁₋₃)-NR²⁰-(C₁₋₃) , (xii) -(C₁₋₃)-CONR²¹-(C₁₋₃) , (xiii) -Cyc1, (xiv) -Cyc1-(C₁₋₄) .

[V] , D가 -NR⁴⁰⁻²CO-(C₅₋₆)- -NR⁴⁰⁻²CS-(C₅₋₆)- , C₅₋₆ , C₁₋₆ , Q가 1 3 , A (i) , (ii) C₁₋₆ , (iii) C₂₋₆ , (iv) C₂₋₆ , (v) -O-(C₁₋₃) , (vi) -S-(C₁₋₃) , (vii) -NR²⁰-(C₁₋₃) , (viii) -CONR²¹-(C₁₋₃) , (ix) -(C₁₋₃)-O-(C₁₋₃) , (x) -(C₁₋₃)-S-(C₁₋₃) , (xi) -(C₁₋₃)-NR²⁰-(C₁₋₃) , (xii) -(C₁₋₃)-CONR²¹-(C₁₋₃) , (xiii) -Cyc1, (xiv) -Cyc1-(C₁₋₄) .

[I]

[I-1] n 1 2 ,

Q가 (1) (i) -(C₁₋₄ , C₂₋₄ C₂₋₄)-Cyc2,

(ii) -(C₁₋₄)-Z-Cyc3,

(iii) -NR²⁴R²⁵ , -S(O)_pR²⁶ , C₁₋₄ , -NR²³COR²⁷ , -NR²³SO₂R²⁸ , -NR²³CONR²⁴R²⁵

(iv) C₁₋₄ (C₁₋₄) , -NR²³COR²⁷ , -COR²⁸ , -OSO₂R²⁸ , -NR²³SO₂R²⁸ -NR²³CO NR²⁴R²⁵

(v) 1 5 R³⁰ , 1 R³⁰ 1 C₃₋₇ , 3 6 ,

(vi) 1 5 R³⁰ C₈₋₁₅ , 7 15

(vii) -T-Cyc5,

(viii) -L-Cyc6-1, -L-(C₂₋₄)-Cyc6-2 -L-(C₁₋₄)_q-Cyc6-3 ,

D가 (1) , , 1 2 , 1 4 R⁴⁰

[I-2] n 1 2 ,

Q가 (1) (i) -(C1 4 , C2 4 C2 4)-Cyc2,

(ii) -(C1 4)-Z-Cyc3,

(iii) -NR 24 R 25 , -S(O) p R 26 , , -NR 23 COR 27 , -NR 23 SO 2 R 28 , -NR 23 CONR 24 R 25
C1 4 ,

(iv) C1 4 (C1 4) , -NR 23 COR 27 , -COR 28 , -OSO 2 R 28 , -NR 23 SO 2 R 28 -NR 23 CO
NR 24 R 25 ,

(v) 1 5 R 30 , 1 R 30 1
C3 7 , 3 6 ,

(vi) 1 5 R 30 C8 15 , 7 15
,

(vii) -T-Cyc5,

(viii) -L-Cyc6-1, -L-(C2 4)-Cyc6-2 -L-(C1 4) q -Cyc6-3 ,

D가 (2) , ,
가 , R 3 ,
(, y 1 4) .
R 40 3 6 R 40 R 3 R 40 R 42 -(CH 2) y -

(I) , A ,

(i) ,

(ii) C1 4 ,

(iii) C2 4 ,

(iv) C2 4 ,

(v) -O-(C1 2) ,

(vi) -S-(C1 2) ,

(vii) -NR 20 -(C1 2) ,

(viii) -CONR 21 -(C1 2) ,

(ix) -CH 2 -O-(C1 2) ,

(x) -CH 2 -S-(C1 2) ,

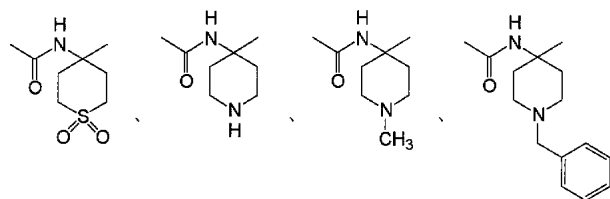
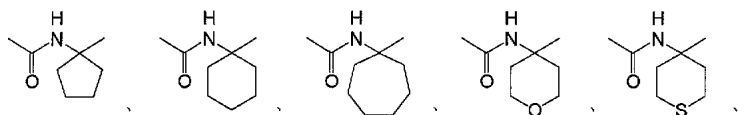
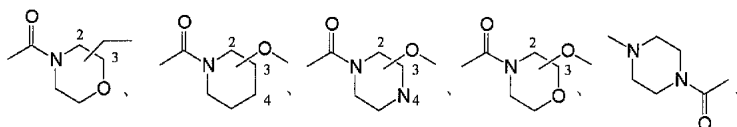
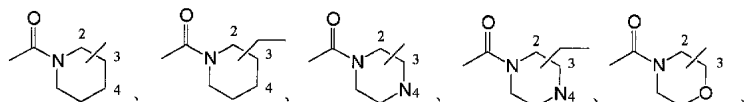
(xi) -CH 2 -NR 20 -(C1 2) ,

(xii) -CH 2 -CONR 21 -(C1 2) ,

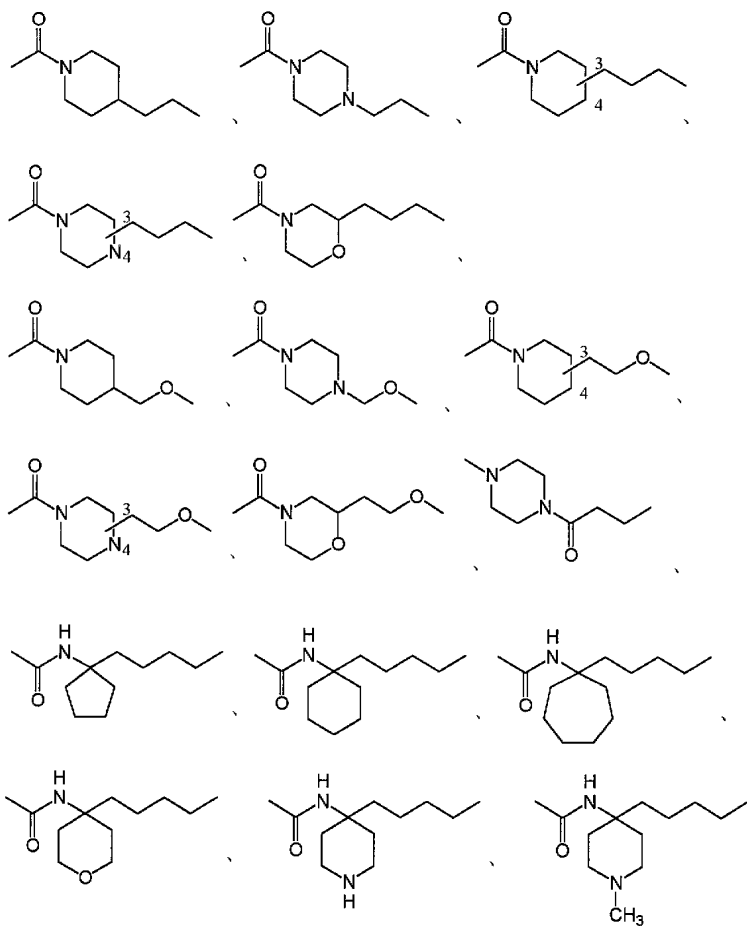
(xiii) -Cyc1,

(xiv) -(C1 2)-Cyc1,

(2) 3 6, -(CH₂)₃ -, -(CH₂)₄ -, -(CH₂)₅ -, -(CH₂)₆ -, -CH=CH-CH₂ -, -CH=CH-(CH₂)₂ -, -CH=CH-(CH₂)₃ -, -C C-CH₂ -, -C C-(CH₂)₂ -, -C C-(CH₂)₃ -, -(CH₂)₂-O-, -(CH₂)₃-O-, -(CH₂)₄-O-, -(CH₂)₅-O-, -O-(CH₂)₂ -, -O-(CH₂)₃ -, -O-(CH₂)₄ -, -O-(CH₂)₅ -, -O-CH₂-CH(R⁴⁰)-, -O-CH₂-CH(R⁴⁰)-CH₂ -, -O-CH₂-CH₂-CH(R⁴⁰)-, -O-CH₂-CH=CH-, -O-(CH₂)₂-CH=CH-, -NR⁴⁰⁻¹-(CH₂)₂ -, -NR⁴⁰⁻¹-(CH₂)₃ -, -S-(CH₂)₂ -, -S-(CH₂)₃ -, -SO₂-(CH₂)₂ -, -SO₂-(CH₂)₃ -, -CH₂-NHCO-, -NHCO-CH₂ -, -NR⁴⁰⁻¹CO-CH₂ -, -NHCO-CHR⁴⁰ -, -NHCO-C(R⁴⁰)₂ -, -NHCO-(CH₂)₂ -, NHCO-CHR⁴⁰-CH₂ -, -NHCO-CH₂-CHR⁴⁰ -, -NHCO-CHR⁴⁰-CHR⁴⁰ -, -CONH-CH₂ -, -CONR⁴⁰⁻¹-CH₂ -, -CONH-CHR⁴⁰ -, -CONH-C(R⁴⁰)₂ -, -CONH-(CH₂)₂ -, -CONH-CHR⁴⁰-CH₂ -, -CONH-CHR⁴⁰-(CH₂)₂ -, -CONH-CH₂-CHR⁴⁰ -, -CONH-CH(R⁴⁰)-CH(R⁴⁰)-, -NHSO₂-CH₂ -, -NR⁴⁰⁻¹SO₂-CH₂ -, -NHSO₂-CHR⁴⁰ -, -NHSO₂-C(R⁴⁰)₂ -, -NHSO₂-(CH₂)₂ -, NHSO₂-CHR⁴⁰-CH₂ -, -NHSO₂-CH₂-CHR⁴⁰ -, -NHSO₂-CH(R⁴⁰)-CH(R⁴⁰)-, -SO₂NH-CH₂ -, -SO₂NR⁴⁰⁻¹-CH₂ -, -SO₂NH-CHR⁴⁰ -, -SO₂NH-C(R⁴⁰)₂ -, -SO₂NH-(CH₂)₂ -, SONH₂-CHR⁴⁰-CH₂ -, -SO₂NH-CH₂-CHR⁴⁰ -, -SO₂NH-CH(R⁴⁰)-CH(R⁴⁰)-, -CH₂-O-CH₂ -, -CH₂-O-(CH₂)₂ -, -(CH₂)₂-O-CH₂ -, -(CH₂)₂-O-(CH₂)₂ -, -O-(CH₂)₂-O-, -O-(CH₂)₃-O-, -O-(CH₂)₄-O-, -O-CH₂-CH(R⁴⁰)-CH₂-O-, -O-CH₂-CO-, -O-CH₂-NR⁴⁰⁻¹ -, -O-(CH₂)₂-NR⁴⁰⁻¹ -, -O-(CH₂)₂-NR⁴⁰⁻¹-CH₂ -, -O-(CH₂)₃-NR⁴⁰⁻¹ -, -O-CH₂-CH₂-NHCO-, -O-CH₂-CH₂-NR⁴⁰⁻¹CO-, -O-CH₂-CH(R⁴⁰)-NHCO-, -O-CH₂-CH(R⁴⁰)-NR⁴⁰⁻¹CO-, -O-CH₂-CH₂-NHSO₂ -, -O-CH₂-CH₂-NR⁴⁰⁻¹SO₂ -, -O-CH₂-CH(R⁴⁰)-NHSO₂ -, -O-CH₂-CH(R⁴⁰)-NR⁴⁰⁻¹SO₂ -, -O-CH₂-CONH-, -O-CH₂-CONR⁴⁰⁻¹ -, -O-CH₂-CONH-CH₂ -, -O-(CH₂)₂-CONH-CH₂ -, -O-CH₂-CONR⁴⁰⁻¹-CHR⁴⁰ -, -O-CH₂-NHCO-CH₂ -, -O-(CH₂)₂-NHCO-CH₂ -, -O-CH₂-NR⁴⁰⁻¹CO-CHR⁴⁰ -,



(3) 7 10, -(CH₂)₇ -, -(CH₂)₈ -, -(CH₂)₉ -, -(CH₂)₁₀ -, -O-(CH₂)₆ -, -O-(CH₂)₇ -, -O-(CH₂)₈ -, -O-(CH₂)₉ -, -NR⁴⁰⁻¹-(CH₂)₆ -, -NR⁴⁰⁻¹-(CH₂)₇ -, -S-(CH₂)₆ -, -S-(CH₂)₇ -, -SO₂-(CH₂)₆ -, -SO₂-(CH₂)₇ -, -NHCO-(CH₂)₅ -, -NR⁴⁰⁻¹CO-(CH₂)₅ -, -CONH-(CH₂)₅ -, CO-NR⁴⁰⁻¹-(CH₂)₅ -, -NHSO₂-(CH₂)₅ -, -NR⁴⁰⁻¹SO₂-(CH₂)₅ -, -SO₂NH-(CH₂)₅ -, -SO₂NR⁴⁰⁻¹-(CH₂)₅ -, -O-(CH₂)₅-O-, -O-(CH₂)₆-O-, -O-(CH₂)₅-NR⁴⁰⁻¹ -, -O-(CH₂)₅-NR⁴⁰⁻¹ -, -O-(CH₂)₄-NHCO-, -O-(CH₂)₄-NR⁴⁰⁻¹CO-, -O-(CH₂)₄-CONH-, -O-(CH₂)₄-CONR⁴⁰⁻¹ -, -(CH₂)₆-O-, -(CH₂)₇-O-, -(CH₂)₈-O-, -(CH₂)₉-O-,



R 40

R 40-1

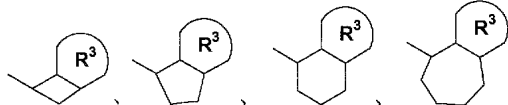
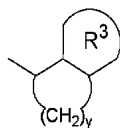
, D

R³

R⁴⁰, R³

R⁴²

-(CH₂)_v-



, R³

C₃ 12
3 12

R³

(1) C₁ 6
1 4

(2) 1 5 R⁴²
1 2 / 1

(2) 1 5 R⁴²

(1)

, 1,3- , 9,10-

(1) (2) 1 5 R⁴²

, 1,3- , 9,10-
(l)

[]

(l) () ()
-D-) () , N-

가 가

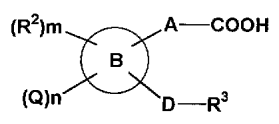
(l)

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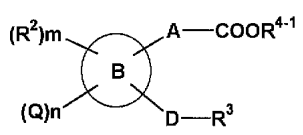
(1) (l) , R¹ COOH (la) (lb)

(la)



(.)

(lb)



(R⁴⁻¹ C1 6 .)

(1) 가 ,

(2) ,

(3) 가 .

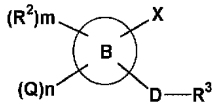
가) , (, () , -10 90

(/) , 0 100 , P-) , () , (

가) , () , () , (, 2) , () , () , 0 200 , -) , 가

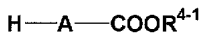
(2) (Ib) , (i) (II-1) (III-1) , (ii) (II-1) (III-2) :

(II-1)



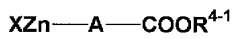
(X , .)

(III-1)



(.)

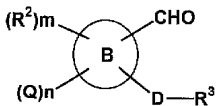
(III-2)



(.)

, (iii) (II-2) :

(II-2)



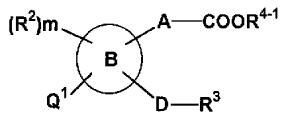
(.)

(i) (ii) , () , (1,1'- () , 3 () () 60 120 .

(iii) , () , t- (II-2) () , 4- () , 0 50 (II-2) , 100 120 .

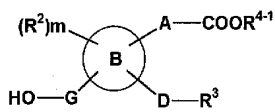
(iv) (Ib) , 1 Q7† -(C1 4 , C2 4 C2 4)-Cyc2, -(C1 4)-O-Cyc3, -O-Cyc6-1, -O-CH₂-Cyc6-1, -O-(C2 4)-Cyc6-2 -O-(C1 4)_q-Cyc6-3 , (Ib-1) (Ib-2) ,

(Ib-1)



(Q 1 -(C1 4 , C2 4 C2 4)-Cyc2, -(C1 4)-O-Cyc3, -O-Cyc6-1, -O-CH₂-Cyc6-1, -O-(C2 4)-Cyc6-2 -O-(C1 4)_q-Cyc6-3 , .)

(Ib-2)



(G , C1 4 , C2 4 C2 4 , .)

(a) (IV-3), (IV-4), (IV-5) (IV-1) (IV-6) , (b) (IV-2), :

(IV-1)

Cyc2

(.)

(IV-2)

Cyc3-OH

(IV-3)

Cyc6-1-OH

(IV-4)

Cyc6-1-CH₂-OH

(IV-5)

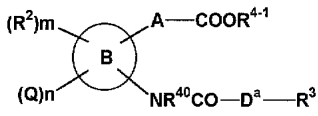
Cyc6-2-(C2 4)-OH

(IV-6)

Cyc6-3-(C1 4)_q-OH

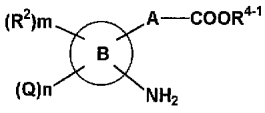
(.)

), 3 , (a) (Ib-2) (, ,) , (,



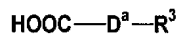
($D^a - NR^{40} CO - D^a -$ (1) 2 , (2) 3 6) , (3) 7 10 , .)

(V-2)



(.)

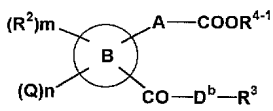
(VII-1)



(.)

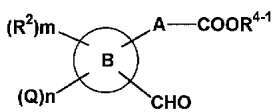
(iii) (lb) , D^b 가 $-CO - D^b -$, (lb-5)
 (V-3) (VIII) ,
 :

(lb-5)



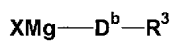
($D^b - CO - D^b -$ (1) 1 2 , (2) 3 6) , (3) 7 10 , .)

(V-3)



(.)

(VIII)



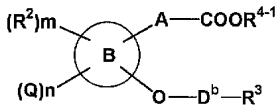
(.)

), -78 () , (X)(4- -2-

) , (, - ()) , 3 (, , ,) , 0 50 . , ,

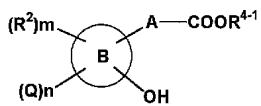
(iv) (Ib) , D가 -O-D^b - , (Ib-6) (V-4) (IX) :

(Ib-6)



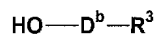
(D^b -O-D^b - (1) 1 2 , (2) 3 6 , (3) 7 10 , .)

(V-4)



(.)

(IX)

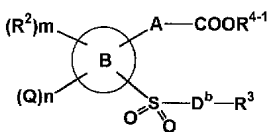


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, , (, , 1,1'-() , 1,1'-() , N,N-)) (,) , () , 0 60 .

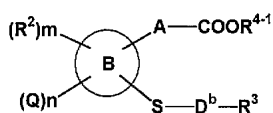
(v) (Ib) , D가 -SO₂-D^b - , (Ib-7) (Ib-8) :

(Ib-7)



(D^b -SO₂-D^b - (1) 1 2 , (2) 3 6 , (3) 7 10 , .)

(Ib-8)

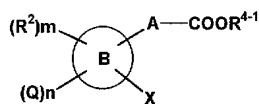


(.)

(-30 50 , () , , (3-

, (Ib-8) (V-5) , (X)

(V-5)



() .)

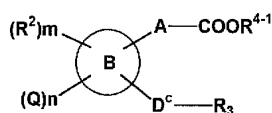
(X)

HS-D^b-R³

() .)

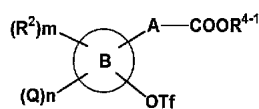
, , () , 0 50 .
 (vi) (Ib) , D가 (1) 2 , (2) 3 6
 (V-6) , (3) 7 10 (XI-1) (XI-2) , (Ib-9)
 :

(Ib-9)



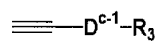
(D^c (1) 2 , (2) 3 6 , (3)
 7 10 , .)

(V-6)



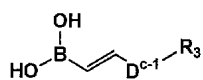
(Tf , .)

(XI-1)



(D^{c-1} (1) , (2) 1 4 , (3) 5 8
 , .)

(XI-2)



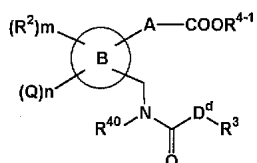
() .)

(V-6) , (XI-1) , () , () , ()

(V-6) (XI-1) 20 100

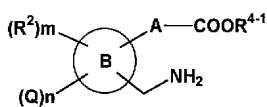
(vii) (Ib) (V-7) , D가 -CH₂-NR⁴⁰CO-D^d- (Ib-10) (VII-2)

(Ib-10)



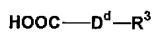
(D^d-CH₂-NR⁴⁰CO-D^d- (1) 3 6 , (2) 7 10 .)

(V-7)

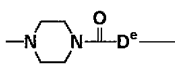


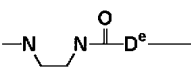
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(VII-2)

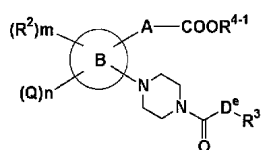


(.)

(viii) (Ib) (V-5) , D가  (Ib-11) (VII-3)

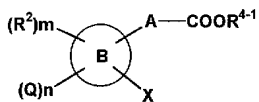
(D^e- , (1) 5 6 , (2) 7 10 .)

(Ib-11)



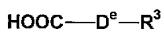
(.)

(V-5)



() .

(VII-3)



() .

(V-5)

() , (80 120) (0), 2-

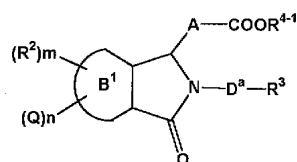
(, t-
-2'-(N,N-

(ix) (Ib)
, R⁴⁰

(Ib-12)
(Ib-3-1)

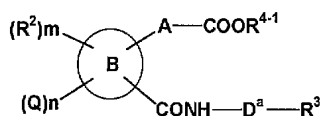
(Ib-3)

(Ib-12)



()
()

(Ib-3-1)

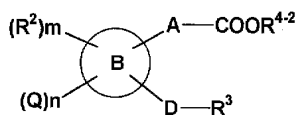


() .

() , 0 50 ,

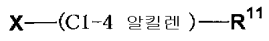
(4) (I) (Ic) , R¹ COOR⁴⁻² (, R⁴⁻² -(C1 4)-R¹¹) (Ia) (XII)

(Ic)



() .

(XII)

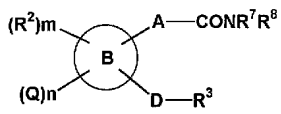


()

, (0 50 , ,) , ,

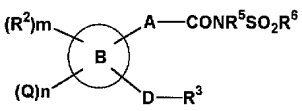
(5) (I) , R^1 $CONR^7R^8$, $CONR^5SO_2R^6$, (Id-1)
 , (Id-2) (Ia) (XIII-1)
 , (XIII-2) :

(Id-1)



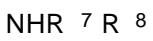
()

(Id-2)



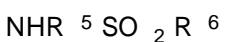
()

(XIII-1)



()

(XIII-2)

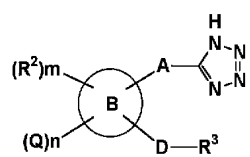


()

, , () ,
) 0 50 , (, , ,

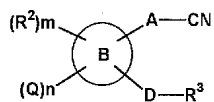
(6) (I) , R^1 , (Ie) (XIV)
) :

(Ie)



()

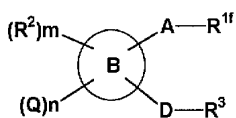
(XIV)



() , 100 130 .

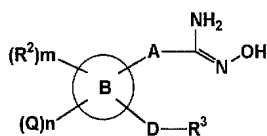
(7) (I) , R¹ 1,2,4- -5- , 1,2,4- -5- , 1,2,4-
 -5- , 1,2,3,5- (i) (XVI-1) (XVI-2) (If) (XVI-3) (XV) (iii)
) (XV-2) , (ii) :

(If)

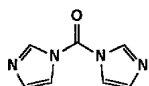


(R^{1f} 1,2,4- -5- , 1,2,4- -5- , 1,2,4- -5- , 1,5,2,4-
 -5- .)

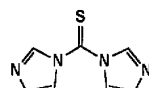
(XV)



(XVI-1)



(XVI-2)



(XVI-3)

SOCl₂

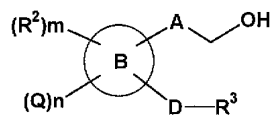
(i) , () , 1,8- [5.4.0]
 -7- , 0 50 .

(ii) , () , 3 (,
 ,) , 0 50 .

(iii) , () , (XV-2) ,
 0 50 .

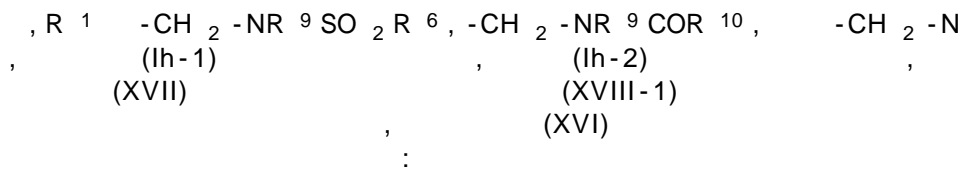
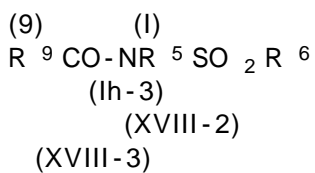
(8) (I) , R¹ 가 -CH₂-OH , (Ig) (I)
 a) :

(lg)

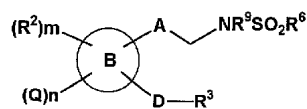


() .

, () , 0 50

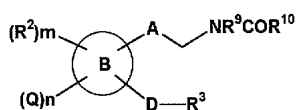


(lh-1)



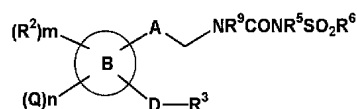
() .

(lh-2)



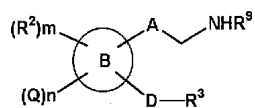
() .

(lh-3)



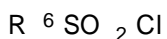
() .

(XVII)



() .

(XVIII-1)



() .

(XVIII-2)

R¹⁰ COCl

() .)

(XVIII-3)

R⁶ SO₂ N=C=O

() .)

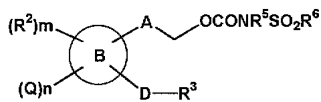
(XVI)

(XVII-3)

) , 0 50 (

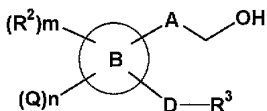
(10) (I) , R¹ -CH₂-OCONR⁵SO₂R⁶ , (II)
(Ig) (XVIII-3)

(II)



() .)

(Ig)



() .)

(XVIII-3)

R⁶ SO₂ N=C=O

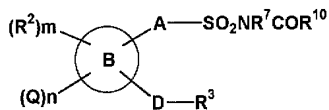
() .)

(XVI)

(XVII-3)

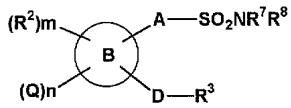
(11) (I) , R¹ -SO₂NR⁷COR¹⁰ , (Ij)
(XIX) , R⁸ (XX)

(Ij)



() .)

(XIX)



() .)

(XX)

R¹⁰ COOH

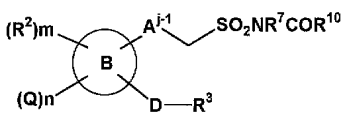
() .)

, , .

, (Ij) , -A-SO₂NR⁷COR¹⁰ -A^{j-1}-CH₂-SO₂NR⁷COR¹⁰
 , (Ij-1) (XXI) (XXII)

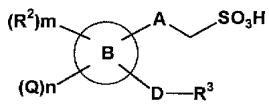
:

(Ij-1)



(5 A^{j-1} A (ii), (v) (xii), (xv) , 가 , (iii) C2
 , (iv) C2 5 , .)

(XXI)



() .)

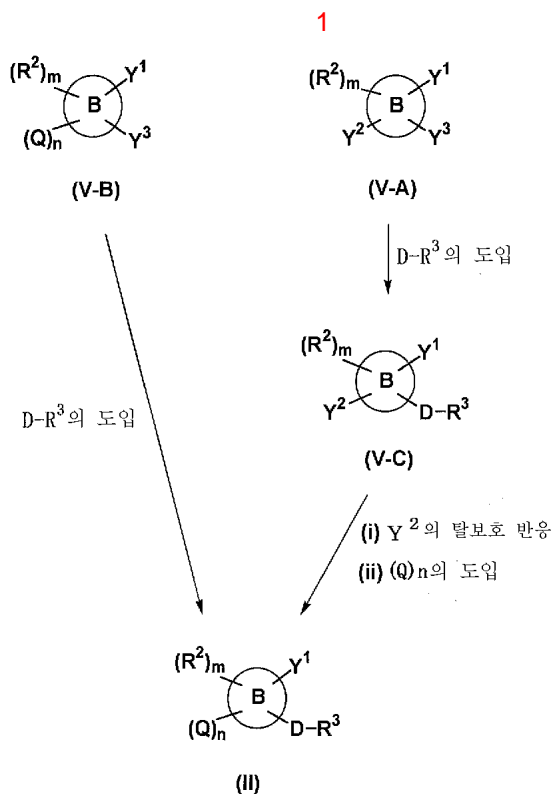
(XXII)

NHR⁷COR¹⁰

() .)

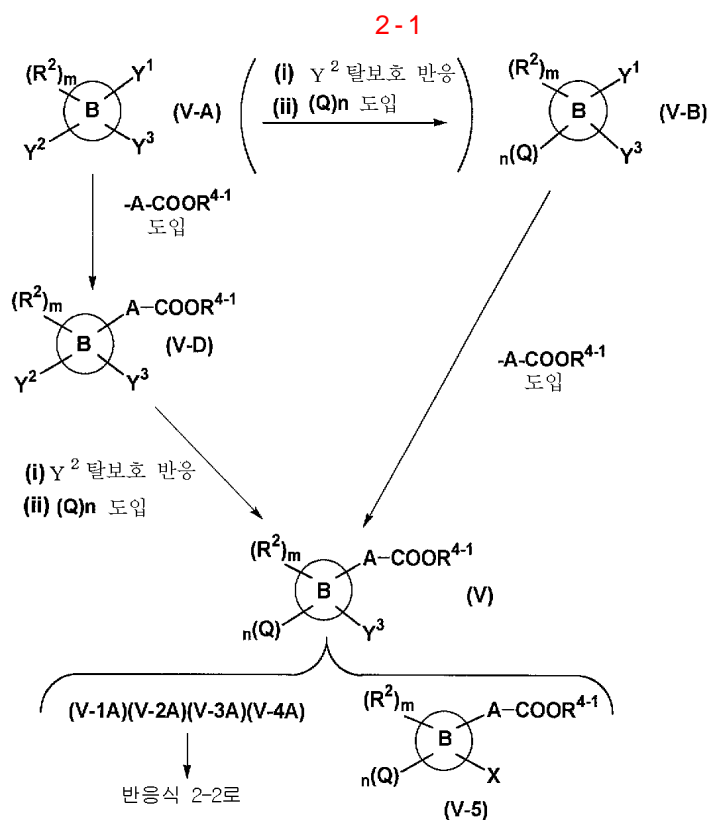
, , .

(II-1) (II-2) 1 :

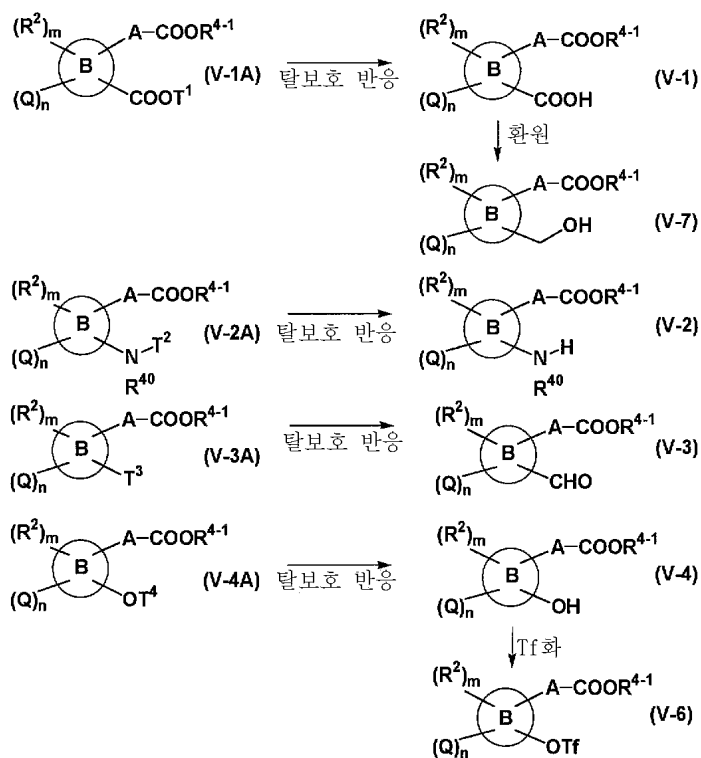


(V-1), (V-2), (V-3), (V-4), (V-5), (V-6), (V-7)

2-1 2-2



2-2



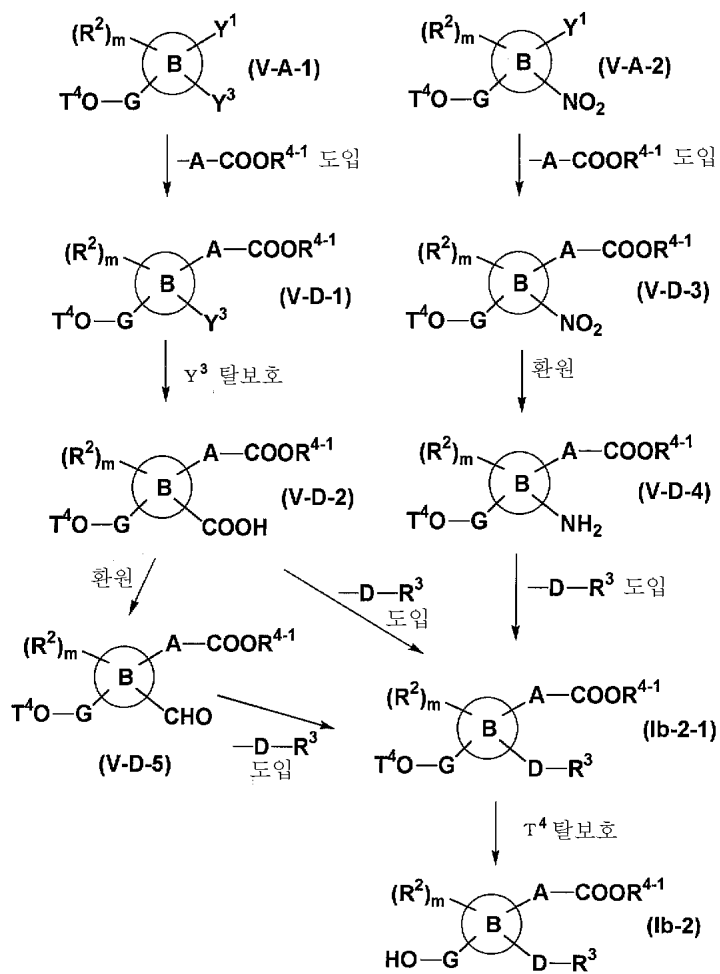
(Ib-2)

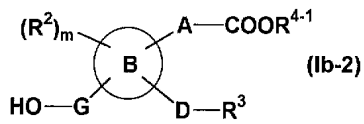
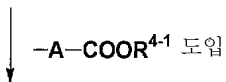
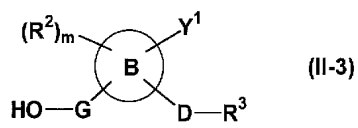
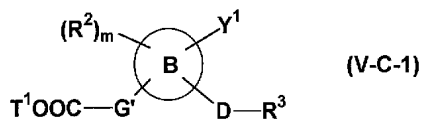
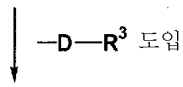
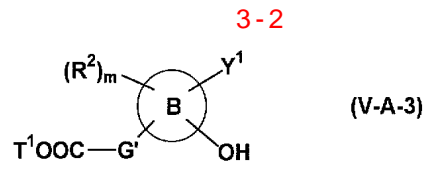
3-1

3-2

:

3-1

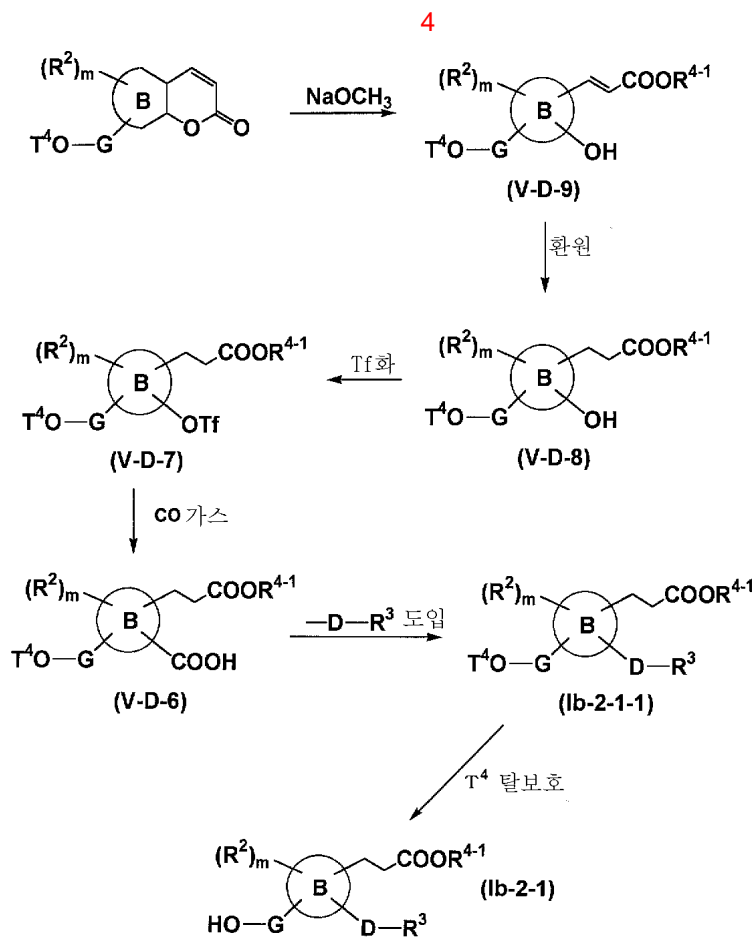




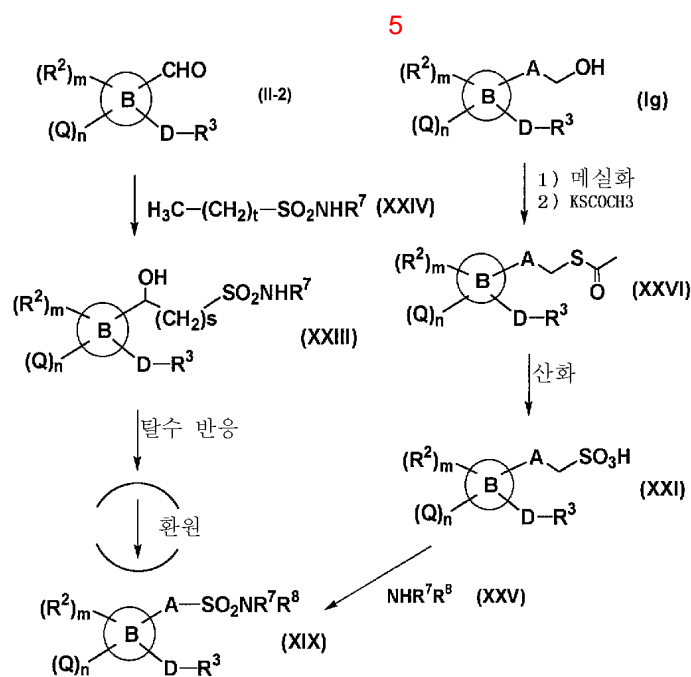
, (Ib-2)
:

, -A-가

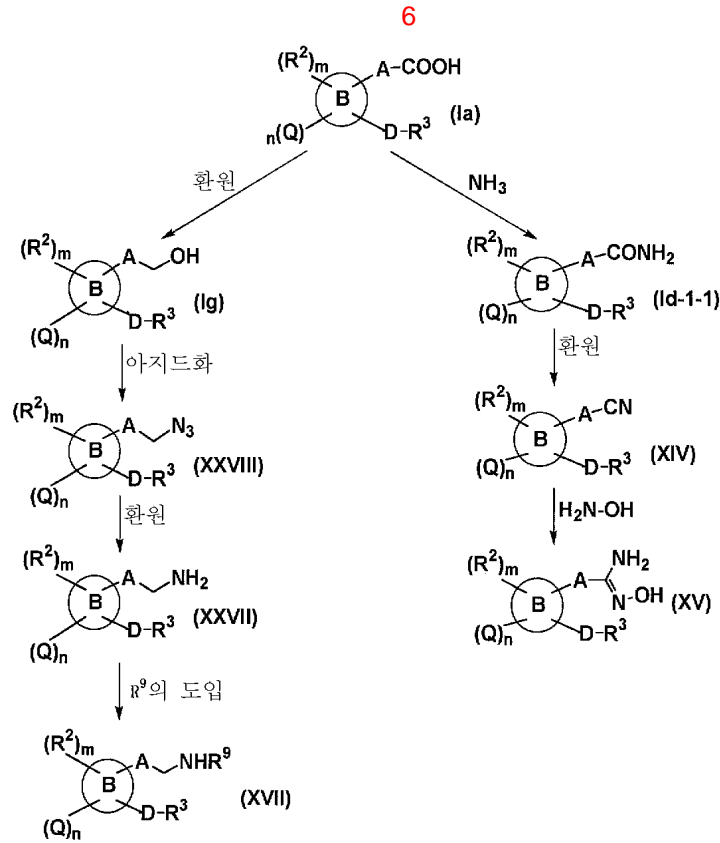
4



5



6



1 4 ,

Y¹ X (, X) ,

Y² (Q)_n , (C1 4) -OH ,

Y³ (i) COOT¹ (, T¹ (, , , t- ,)) ,

(ii) NR⁴⁰ T² (, T² (, t-)) ,

(iii) T³ (, T³ 가 (,)) ,

(iv) OT⁴ (, T⁴ (, ,)) ,

(v) ,

G' , C1 3 , C2 3 C2 3 ,

s 1 5 , t 1 4 .

(V-A)

(III-1), (III-2), (IV-1), (IV-2), (IV-3), (IV-4), (IV-5), (IV-6), (VI), (VII-1), (VII-2), (VII-3), (VIII), (IX), (X), (XI-1), (XI-2), (XII), (XIII-1), (XIII-2), (XVI-1), (XVI-2), (XVI-3), (XVIII-1), (XVIII-2), (XVIII-3), (XX), (XXII)

가 , 가
 , t-
 , t-
 [T. W. Greene, Protective Groups in Organic Synthesis, Wiley, New York, 1991]

[]

(I) PGE₂ , EP₃ / EP₄

(i)

(Sugimoto) (J. Biol. Chem. 267, 6463-6466(1992))
 (EP₁, EP₂, EP₃ EP₄) CHO ,
 (50 μl), ³H-PGE₂ (150 μl) 1
 (3 M) , ³H-PGE₂ (GF/B) ,
 Kd Bmax Scatchard plots [Ann. N. Y. Acad. Sci. 51, 660(1949)].
 (2.5 μM) PGE₂
³H-PGE₂ (2.5 nM) 가 ³H-PGE₂

: (10 mM, pH6.0), EDTA(1 mM), MgCl₂ (10 mM), NaCl(0.1 M).

Ki(μM) . 1 .

$$Ki = IC_{50} / (1 + ([C]/Kd))$$

1

	Ki(μM)			
	EP ₁	EP ₂	EP ₃	EP ₄
8(13)	>10	>10	0.27	0.038

(ii)

EP₃

(Sugimoto) (J. Biol. Chem. 267, 6463-6466(1992)) EP₃
 CHO . 96 10⁴ / , 2

(l)

가

(l)

(l)

(l)

(l)

,N

2

(l)

2

(l)

(

(l)

,EDG-5

(Ufenamate),

(Etodolac),

(Napageln Lotion),

(Emo

rfazone),

G, -N,

(Difluprednate),

(Diflucortolone Valerate),

126P,

,ST-

(FK-506),

, MCC-847, KCA-7
57, CS-615, YM-158, L-740515, CP-195494, LM-1484, RS-635, A-93178, S-36496, BIIL-284, ONO-4057

, TAK-427, ZCR-2060, NIP-530, , BP-294, (Auranofin),

(Carboquone), -N- (가, D, C, (Pirarubicine), A3, (L-

4, NIK-616, (BY-217), PDE4 (BRL-61063), (CP-80633), SCH-351591, YM-976, V Bay19-800 -11294A, PD-168787, D-4396, IC-485

(I)

2

(I)

(I)

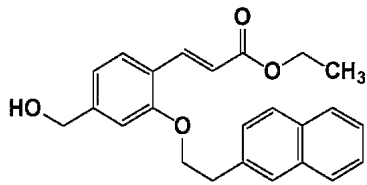
(I)

100 mg 1 1 1 1 24 1 1 0.1 ng 10 mg 1 ng

가
가

(I)

(I)



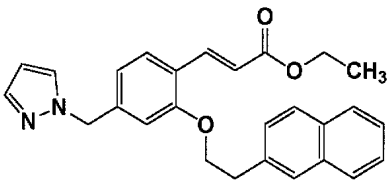
30, 4 (2.54 g), (1.36 Mℓ), (4.38 Mℓ), 1,1'- (348 mg) (II)(141 mg) 가, (25 Mℓ) 100 (n- : =2:1 1:1) (2.07 g)

TLC: Rf 0.47(n- : =1:1);

NMR(300MHz, CDCl₃): 7.99(d, J=16Hz, 1H), 7.86-7.76(m, 4H), 7.50-7.40(m, 4H), 6.94(s, 1H), 6.90(d, J=2.1Hz, 1H), 6.52(d, J=16Hz, 1H), 4.67(d, J=5.4Hz, 2H), 4.34(t, J=6.6Hz, 2H), 4.27(q, J=7.2Hz, 2H), 3.33(t, J=6.6Hz, 2H), 1.34(t, J=7.2Hz, 3H).

_____ 2

2-[2-(-2-)]-4-(1-)



0, 1 (1.74 g) (1.29 Mℓ) (20 Mℓ) (537 μℓ) 가 15 (346 mg) N,N- (8 Mℓ) 0 (1.17 g) (193 mg) 가, 10 N,N- (63. (8 Mℓ) 가, 1 가,)

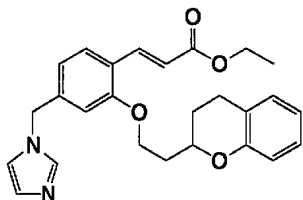
TLC: Rf 0.36(n- : =2:1).

_____ 2(1) 2(12)

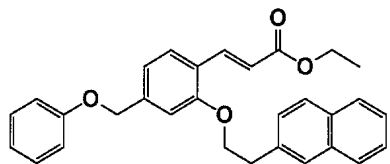
, 2

_____ 2(1)

(2E)-3-(2-(2-(-2-))-4-(-1-))-2-



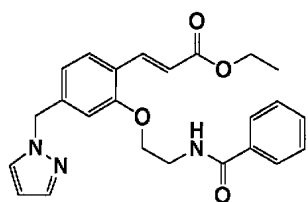
(2E)-3-(2-(2-(
-2-))-4-)-2-



TLC: Rf 0.46(n- : =4:1).

2(7)

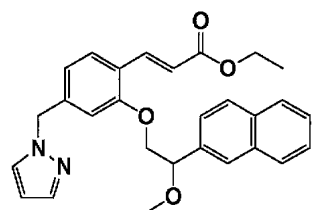
(2E)-3-(2-(2-(
))-4-(
-1-))-2-



TLC: Rf 0.46(: =10:1).

2(8)

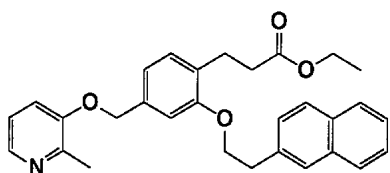
(2E)-3-(2-(2-
-2-(
-2-))-4-(
-1-))-2-



TLC: Rf 0.46(n- : =1:1).

2(9)

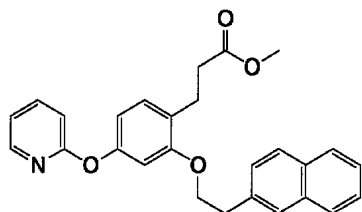
3-(2-(2-(
-2-))-4-(2-
-3-))



TLC: Rf 0.48(n- : =1:1).

2(10)

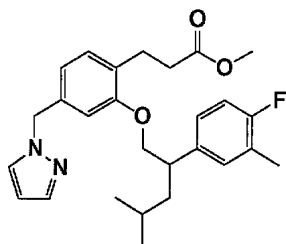
3-(2-(2-(
-2-))-4-(
-2-))



TLC: Rf 0.55(n- : =2:1).

2(11)

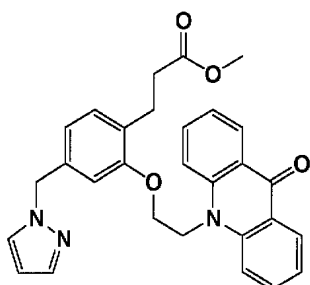
3-(2-(4- -2-(4- -3-))-4-(-1-))



TLC: Rf 0.50(n- : =2:1).

2(12)

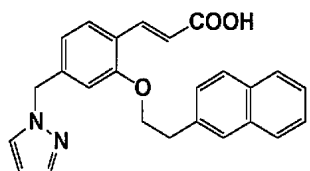
3-(2-(2-(9,10- -9- -10-))-4-(-1-))



TLC: Rf 0.32(n- : =1:2).

3

(2E)-3-(2-(2-(-2-))-4-(-1-))-2-



2 (253 mg) (2 Mℓ)- (1.5 Mℓ) 2N (1.5
 Mℓ) 71 , 50 1 1N ,
 (n- : =3:2 2:3) (186 mg)

TLC: Rf 0.28(n- : =1:1);

NMR(200MHz, CDCl₃): 8.07(d, J=16.0Hz, 1H), 7.88-7.72(m, 4H), 7.57(d, J=2.0Hz, 1H), 7.51-7.35(m, 5H), 6.77(brd, J=7.8Hz, 1H), 6.72(brs, 1H), 6.51(d, J=16.0Hz, 1H), 6.29(t, J=2.0Hz, 1H), 5.30(s, 2H), 4.25(t, J=6.6Hz, 2H), 3.28(t, J=6.6Hz, 2H).

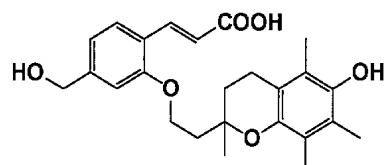
3(1) 3(202)

2(1) 2(12)

3

3(1)

(2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-)-2-

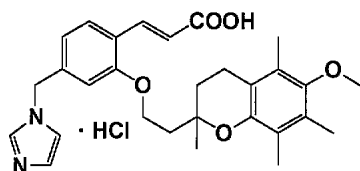


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.05(d, J=16Hz, 1H), 7.50(d, J=8.1Hz, 1H), 6.97-6.88(m, 2H), 6.50(d, J=16Hz, 1H), 4.68(s, 2H), 4.37-4.19(m, 2H), 2.68(t, J=6.6Hz, 2H), 2.37-2.07(m, 2H), 2.16(s, 3H), 2.12(s, 6H), 2.00-1.81(m, 2H), 1.37(s, 3H).

3(2)

(2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(-1-))-2- .

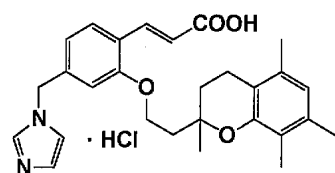


TLC: Rf 0.55(: =9:1);

NMR(300MHz, DMSO-d₆): 9.29(s, 1H), 7.90-7.65(m, 4H), 7.26(s, 1H), 6.98(d, J=7.5Hz, 1H), 6.53(d, J=16.2Hz, 1H), 5.42(s, 2H), 4.40-4.10(m, 2H), 3.52(s, 3H), 2.66-2.56(m, 2H), 2.20-1.76(m, 4H), 2.09(s, 3H), 2.07(s, 3H), 2.00(s, 3H), 1.32(s, 3H).

3(3)

(2E)-3-(2-(2-(2,5,7,8- -2-))-4-(-1-))-2- .



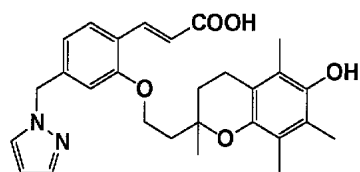
TLC: Rf 0.52(: =9:1);

NMR(300MHz, DMSO-d₆): 9.28(s, 1H), 7.85-7.65(m, 4H), 7.26(s, 1H), 6.68(d, J=7.8Hz, 1H), 6.60-6.46(m, 2H), 5.42(s, 2H), 4.40-4.15(m, 2H), 2.64-2.54(m, 2H), 2.24-1.76(m, 4H), 2.12(s, 3H), 2.11(s, 3H), 1.98(s,

3H), 1.33(s, 3H).

3(4)

(2E)-3-(2-(2-(2,5,7,8-

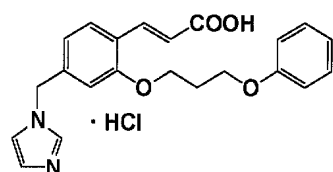


TLC: Rf 0.38(: =19:1);

NMR(300MHz, DMSO-d₆): 12.28(bs, 1H), 7.82(d, J=1.8Hz, 1H), 7.77(d, J=16Hz, 1H), 7.61(d, J=8.0Hz, 1H), 7.46(d, J=1.8Hz, 1H), 7.41(bs, 1H), 6.92(s, 1H), 6.71(d, J=8.0Hz, 1H), 6.46(d, J=16Hz, 1H), 6.27(t, J=1.8Hz, 1H), 5.32(s, 2H), 4.27-4.03(m, 2H), 2.56(m, 2H), 2.17-1.71(m, 4H), 2.04(s, 3H), 2.01(s, 3H), 1.98(s, 3H), 1.27(s, 3H).

3(5)

(2E)-3-(2-(3-

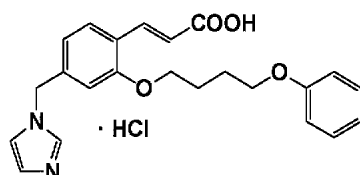


TLC: Rf 0.60(: =9:1);

NMR(300MHz, DMSO-d₆): 9.29(m, 1H), 7.80(d, J=16Hz, 1H), 7.79(m, 1H), 7.71(d, J=7.8Hz, 1H), 7.67(m, 1H), 7.32-7.22(m, 3H), 7.04-6.88(m, 4H), 6.55(d, J=16Hz, 1H), 5.41(s, 2H), 4.24(t, J=6.2Hz, 2H), 4.15(t, J=6.1Hz, 2H), 2.24(m, 2H).

3(6)

(2E)-3-(2-(4-



TLC: Rf 0.56(: =9:1);

NMR(300MHz, DMSO-d₆): 9.29(m, 1H), 7.81(m, 1H), 7.80(d, J=16Hz, 1H), 7.71(d, J=7.8Hz, 1H), 7.67(m, 1H), 7.32-7.21(m, 3H), 7.04-6.86(m, 4H), 6.57(d, J=16Hz, 1H), 5.41(s, 2H), 4.15(t, J=5.7Hz, 2H), 4.03(t, J=6.0Hz, 2H), 2.02-1.81(m, 4H).

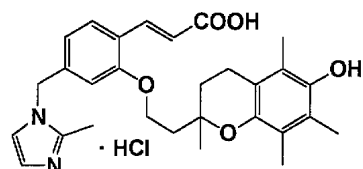
3(7)

(2E)-3-(2-(2-(

NMR(300MHz, DMSO-d₆): 9.28(s, 1H), 7.84-7.65(m, 4H), 7.58-7.47(m, 2H), 7.31(s, 1H), 7.27-7.15(m, 2H), 7.00(d, J=8.1Hz, 1H), 6.73(s, 1H), 6.57(d, J=16Hz, 1H), 5.41(s, 2H), 4.41(t, J=6.3Hz, 2H), 3.34(t, J=6.3Hz, 2H).

3(11)

(2E)-3-(2-(2-(2,5,7,8-

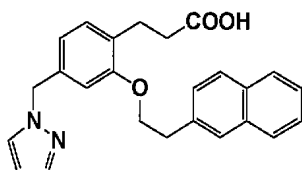


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CD₃OD): 7.93(d, J=16Hz, 1H), 7.61(d, J=8.1Hz, 1H), 7.45(s, 2H), 6.93(s, 1H), 6.81(d, J=8.1Hz, 1H), 6.52(d, J=16Hz, 1H), 5.32(d, J=15Hz, 1H), 5.28(d, J=15Hz, 1H), 4.41-4.21(m, 2H), 2.65(t, J=7.1Hz, 2H), 2.61(s, 3H), 2.29-1.80(m, 4H), 2.11(s, 3H), 2.08(s, 3H), 2.05(s, 3H), 1.35(s, 3H).

3(12)

3-(2-(2-(



[]

TLC: Rf 0.33(: =1:1);

NMR(200MHz, CDCl₃): 7.84-7.68(m, 4H), 7.54(d, J=1.8Hz, 1H), 7.48-7.35(m, 3H), 7.33(d, J=2.2Hz, 1H), 7.08(d, J=7.4Hz, 1H), 6.74-6.65(m, 2H), 6.28-6.23(m, 1H), 5.24(s, 2H), 4.19(t, J=6.4Hz, 2H), 3.22(t, J=6.4Hz, 2H), 2.93-2.82(m, 2H), 2.56-2.45(m, 2H).

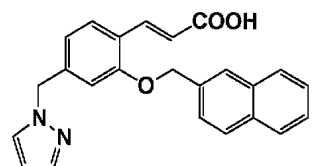
[]

TLC: Rf 0.33(n- : =1:1);

NMR(300MHz, DMSO-d₆): 7.94-7.82(m, 4H), 7.77(d, J=2.1Hz, 1H), 7.56-7.40(m, 4H), 7.07(d, J=7.8Hz, 1H), 6.83(s, 1H), 6.64(d, J=8.1Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.17(t, J=6.6Hz, 2H), 3.19(t, J=6.6Hz, 2H), 2.70(t, J=7.8Hz, 2H), 2.18(t, J=7.8Hz, 2H).

3(13)

(2E)-3-(2-(2-(

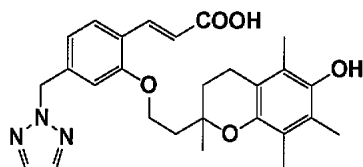


TLC: Rf 0.57(: =1:3);

NMR(500MHz, DMSO- d_6): 8.01-7.87(m, 4H), 7.78(d, J=2.0Hz, 1H), 7.69(d, J=16Hz, 1H), 7.63-7.48(m, 4H), 7.43(d, J=2.0Hz, 1H), 7.08(s, 1H), 6.73(d, J=8.0Hz, 1H), 6.47(d, J=16Hz, 1H), 6.23(t, J=2.0Hz, 1H), 5.30(s, 2H), 5.29(s, 2H).

3(14)

(2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(2H- 1,2,3- -2-))-2-

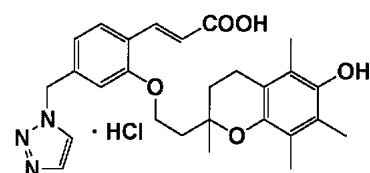


TLC: Rf 0.60(: =9:1);

NMR(200MHz, CD₃OD): 7.92(d, J=16.2Hz, 1H), 7.71(s, 2H), 7.52(d, J=7.6Hz, 1H), 6.85(s, 1H), 6.80(d, J=8.4Hz, 1H), 6.47(d, J=16.2Hz, 1H), 5.56(s, 2H), 4.36-4.08(m, 2H), 2.64(t, J=6.6Hz, 2H), 2.20-2.00(m, 2H), 2.12(s, 3H), 2.08(s, 3H), 2.05(s, 3H), 1.96-1.80(m, 2H), 1.33(s, 3H).

3(15)

(2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(1H-1,2,3- -1-))-2-

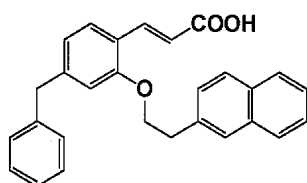


TLC: Rf 0.49(: =9:1);

NMR(200MHz, CD₃OD): 8.37(d, J=1.2Hz, 1H), 8.24(d, J=1.2Hz, 1H), 7.93(d, J=16.4Hz, 1H), 7.59(d, J=8.2Hz, 1H), 7.01(brs, 1H), 6.93(brd, J=8.2Hz, 1H), 6.50(d, J=16.4Hz, 1H), 5.70(s, 2H), 4.90(s, 2H), 4.45-4.15(m, 2H), 2.72-2.58(m, 2H), 2.26-1.80(m, 4H), 2.11(s, 3H), 2.08(s, 3H), 2.05(s, 3H), 1.34(s, 3H).

3(16)

(2E)-3-(2-(2-(2-(-2-)))-4-)-2-

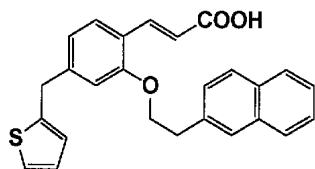


TLC: Rf 0.37(: =2:1);

NMR(200MHz, CDCl₃): 8.12(d, J=16.4Hz, 1H), 7.88-7.74(m, 4H), 7.52-7.10(m, 9H), 6.79(brd, J=8.0Hz, 1H), 6.72(brs, 1H), 6.52(d, J=16.4Hz, 1H), 4.26(t, J=6.6Hz, 2H), 3.95(s, 2H), 3.29(t, J=6.6Hz, 2H).

3(17)

(2E)-3-(2-(2-(
-2-))-4-(
-2-))-2-

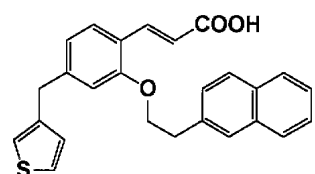


TLC: Rf 0.31(: =2:1);

NMR(300MHz, CDCl₃): 8.12(d, J=16.2Hz, 1H), 7.86-7.74(m, 4H), 7.50-7.38(m, 4H), 7.15(dd, J=5.1, 1.2Hz, 1H), 6.92(dd, J=5.1, 3.6Hz, 1H), 6.84(d, J=7.5Hz, 1H), 6.82-6.76(m, 2H), 6.53(d, J=16.2Hz, 1H), 4.29(t, J=6.8Hz, 2H), 4.12(s, 2H), 3.31(t, J=6.8Hz, 2H).

_____ 3(18)

(2E)-3-(2-(2-(
-2-))-4-(
-3-))-2-

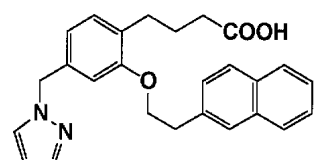


TLC: Rf 0.31(: =2:1);

NMR(200MHz, CDCl₃): 8.13(d, J=16.0Hz, 1H), 7.88-7.74(m, 4H), 7.52-7.36(m, 4H), 7.25(dd, J=4.6, 3.2Hz, 1H), 6.96-6.85(m, 2H), 6.80(brd, J=8.0Hz, 1H), 6.73(brs, 1H), 6.53(d, J=16.0Hz, 1H), 4.27(t, J=6.6Hz, 2H), 3.95(s, 2H), 3.30(t, J=6.6Hz, 2H).

_____ 3(19)

4-(2-(2-(
-2-))-4-(
-1-))

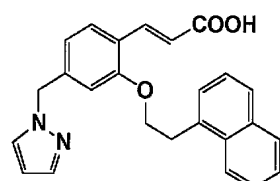


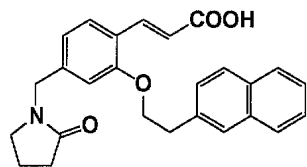
TLC: Rf 0.35(: =1:1);

NMR(200MHz, CDCl₃): 7.84-7.73(m, 3H), 7.69(brs, 1H), 7.54(d, J=1.6Hz, 1H), 7.50-7.32(m, 4H), 7.02(d, J=7.6Hz, 1H), 6.74-6.64(m, 2H), 6.25(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.18(t, J=6.6Hz, 2H), 3.21(t, J=6.6Hz, 2H), 2.57(t, J=7.5Hz, 2H), 2.20(t, J=7.4Hz, 2H), 1.88-1.68(m, 2H).

_____ 3(20)

(2E)-3-(2-(2-(
-1-))-4-(
-1-))-2-



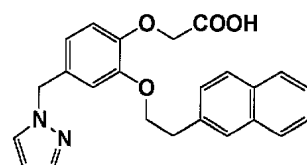


TLC: Rf 0.36(: =10:1);

NMR(200MHz, CDCl₃): 8.10(d, J=16.0Hz, 1H), 7.90-7.76(m, 4H), 7.52-7.36(m, 4H), 6.86-6.76(m, 2H), 6.54(d, J=16.0Hz, 1H), 4.41(s, 2H), 4.31(t, J=6.5Hz, 2H), 3.32(t, J=6.5Hz, 2H), 3.24(t, J=7.0Hz, 2H), 2.45(t, J=8.0Hz, 2H), 2.10-1.88(m, 2H).

_____ 3(25)

2-(2-(2-(-2-))-4-(-1-))

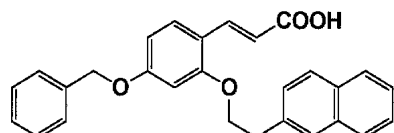


TLC: Rf 0.68(: : =20:1:1);

NMR(300MHz, CDCl₃): 7.83-7.75(m, 3H), 7.70(s, 1H), 7.55(dd, J=1.8, 0.6Hz, 1H), 7.49-7.32(m, 4H), 6.84(d, J=7.8Hz, 1H), 6.78-6.71(m, 2H), 6.26(t, J=2.1Hz, 1H), 5.22(s, 2H), 4.59(s, 2H), 4.25(t, J=7.1Hz, 2H), 3.25(t, J=7.1Hz, 2H).

_____ 3(26)

(2E)-3-(2-(2-(-2-))-4-)-2-

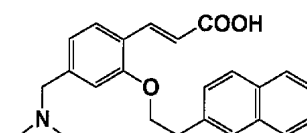


TLC: Rf 0.46(: =1:1);

NMR(300MHz, CDCl₃): 8.06(d, J=16Hz, 1H), 7.87-7.76(m, 4H), 7.50-7.29(m, 9H), 6.60-6.51(m, 2H), 6.46(d, J=16Hz, 1H), 5.05(s, 2H), 4.29(t, J=6.8Hz, 2H), 3.33(t, J=6.8Hz, 2H).

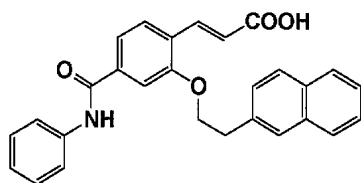
_____ 3(27)

(2E)-3-(2-(2-(-2-))-4-)-2-



TLC: Rf 0.48(: =5:1);

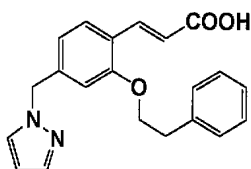
NMR(200MHz, DMSO-d₆): 7.92-7.80(m, 5H), 7.62-7.40(m, 4H), 7.01(brs, 1H), 6.88(d, J=7.6Hz, 1H), 6.50(d, J=16.0Hz, 1H), 4.33(t, J=6.4Hz, 2H), 3.37(s, 2H), 3.26(t, J=6.4Hz, 2H), 2.13(s, 6H).

3(28)(2E)-3-(2-(2-(
-2-))-4-)-2-

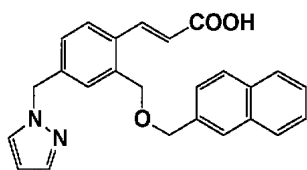
TLC: Rf 0.40(: =10:1);

NMR(200MHz, DMSO-d₆): 10.26(s, 1H), 7.98-7.70(m, 8H), 7.65-7.30(m, 7H), 7.12(t, J=7.3Hz, 1H), 6.67(d, J=16.2Hz, 1H), 4.49(t, J=6.4Hz, 2H), 3.42-3.24(m, 2H).3(29)

(2E)-3-(2-(2-)-4-(-1-))-2-



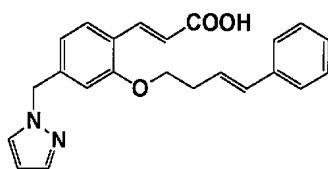
TLC: Rf 0.57(: =9:1);

NMR(300MHz, CDCl₃): 8.03(d, J=16Hz, 1H), 7.57(d, J=2.1Hz, 1H), 7.46(d, J=8.0Hz, 1H), 7.40(d, J=2.1Hz, 1H), 7.37-7.20(m, 5H), 6.78(d, J=8.0Hz, 1H), 6.71(s, 1H), 6.50(d, J=16Hz, 1H), 6.30(t, J=2.1Hz, 1H), 5.31(s, 2H), 4.18(t, J=6.9Hz, 2H), 3.13(t, J=6.9Hz, 2H).3(30)(2E)-3-(2-(
-2-)-4-(-1-))-2-

TLC: Rf 0.38(: =19:1);

NMR(300MHz, CDCl₃): 8.12(d, J=16Hz, 1H), 7.88-7.78(m, 4H), 7.61(d, J=8.1Hz, 1H), 7.57(d, J=2.2Hz, 1H), 7.53-7.39(m, 4H), 7.27(m, 1H), 7.17(d, J=8.1Hz, 1H), 6.40(d, J=16Hz, 1H), 6.30(t, J=2.2Hz, 1H), 5.35(s, 2H), 4.75(s, 2H), 4.65(s, 2H).3(31)

(2E)-3-(2-((3E)-4- -3-)-4-(-1-))-2-

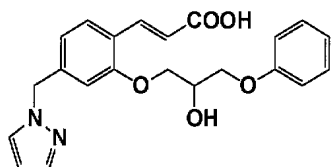


TLC: Rf 0.23(: =1:1);

NMR(200MHz, CDCl₃): 8.03(d, J=16.0Hz, 1H), 7.58-7.18(m, 8H), 6.81-6.74(m, 2H), 6.56(d, J=16.0Hz, 2H), 6.34-6.19(m, 2H), 5.33(s, 2H), 4.10(t, J=6.5Hz, 2H), 2.74(q, J=6.5Hz, 2H).

3(32)

(2E)-3-(2-(2-(3-(4-(1-)-)-2-

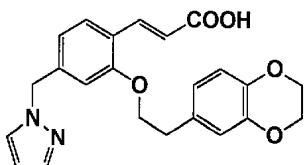


TLC: Rf 0.47(: =9:1);

NMR(300MHz, DMSO-d₆): 12.28(bs, 1H), 7.86-7.77(m, 2H), 7.62(d, J=8.0Hz, 1H), 7.46(dd, J=2.0, 0.8Hz, 1H), 7.32-7.23(m, 2H), 7.03-6.88(m, 4H), 6.73(d, J=8.0Hz, 1H), 6.52(d, J=16Hz, 1H), 6.27(t, J=2.0Hz, 1H), 5.47(bs, 1H), 5.33(s, 2H), 4.26-3.99(m, 5H).

3(33)

(2E)-3-(2-(2-(1,4-6-))-4-(1-))-2-

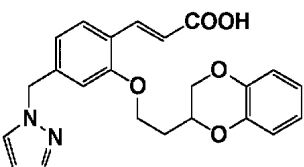


TLC: Rf 0.44(: =10:1);

NMR(300MHz, CDCl₃): 8.01(d, J=16.0Hz, 1H), 7.57(d, J=2.0Hz, 1H), 7.46(d, J=8.0Hz, 1H), 7.40(d, J=2.0 Hz, 1H), 6.83-6.73(m, 4H), 6.70(s, 1H), 6.48(d, J=16.0Hz, 1H), 6.30(t, J=2.0Hz, 1H), 5.30(s, 2H), 4.23(br, 4H), 4.13(t, J=7.0Hz, 2H), 3.01(t, J=7.0Hz, 2H).

3(34)

(2E)-3-(2-(2-(1,4-2-))-4-(1-))-2-

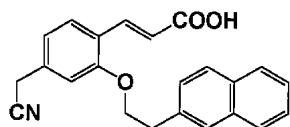


TLC: Rf 0.44(: =10:1);

NMR(300MHz, CDCl₃): 8.02(d, J=16.0Hz, 1H), 7.58(dd, J=2.0, 0.5Hz, 1H), 7.50(d, J=8.0Hz, 1H), 7.43(dd, J=2.0, 0.5Hz, 1H), 6.88-6.76(m, 6H), 6.48(d, J=16.0Hz, 1H), 6.32(t, J=2.0Hz, 1H), 5.33(s, 2H), 4.42(dq, J=2.0, 7.0Hz, 1H), 4.32(dd, J=11.0, 2.0Hz, 1H), 4.29-4.15(m, 2H), 4.00(dd, J=11.0, 7.0Hz, 1H), 2.18(q, J=7.0Hz, 2H).

3(35)

(2E)-3-(2-(2-(2-))-4-)-2-

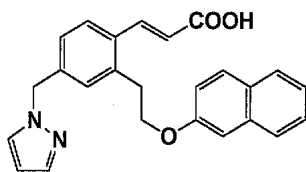


TLC: Rf 0.52(: =10:1);

NMR(300MHz, DMSO-d₆): 7.94-7.78(m, 5H), 7.69(d, J=7.8Hz, 1H), 7.60-7.42(m, 3H), 7.12(s, 1H), 6.96(d, J=7.8Hz, 1H), 6.54(d, J=15.9Hz, 1H), 4.37(t, J=6.6Hz, 2H), 4.04(s, 2H), 3.40-3.20(m, 2H).

3(36)

(2E)-3-(2-(2-(-2-))-4-(-1-))-2-

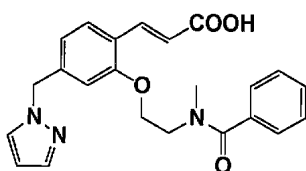


TLC: Rf 0.35(: =19:1);

NMR(300MHz, CDCl₃): 8.20(d, J=16Hz, 1H), 7.75-7.66(m, 3H), 7.63-7.56(m, 2H), 7.45-7.37(m, 2H), 7.35-7.27(m, 1H), 7.20-7.04(m, 4H), 6.41(d, J=16Hz, 1H), 6.30(t, J=2.1Hz, 1H), 5.35(s, 2H), 4.23(t, J=6.7Hz, 2H), 3.28(t, J=6.7Hz, 2H).

3(37)

(2E)-3-(2-(2-(N- -N-))-4-(-1-))-2-

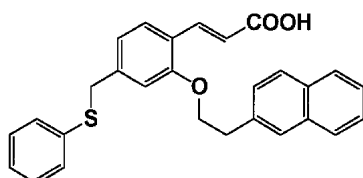


TLC: Rf 0.30(: =10:1);

NMR(500MHz, 100 DMSO-d₆): 7.80(d, J=16.0Hz, 1H), 7.73(d, J=2.0Hz, 1H), 7.57(d, J=8.0Hz, 1H), 7.46(d, J=2.0Hz, 1H), 7.41-7.36(m, 5H), 6.98(s, 1H), 6.80(d, J=8.0Hz, 1H), 6.44(d, J=16.0Hz, 1H), 6.26(t, J=2.0Hz, 1H), 5.32(s, 2H), 4.25(brt, 2H), 3.78(brt, 2H), 3.02(s, 3H).

3(38)

(2E)-3-(2-(2-(-2-))-4-())-2-

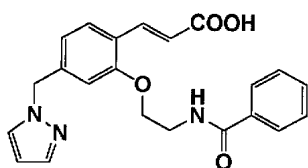


TLC: Rf 0.60(: =9:1);

NMR(300MHz, DMSO-d₆): 12.30(brs, 1H), 7.92-7.75(m, 5H), 7.60-7.42(m, 4H), 7.37-7.12(m, 5H), 7.05(s, 1H), 6.94(d, J=7.8Hz, 1H), 6.48(d, J=16.2Hz, 1H), 4.26(t, J=6.6Hz, 2H), 4.23(s, 2H), 3.24(t, J=6.6Hz, 2H).

3(39)

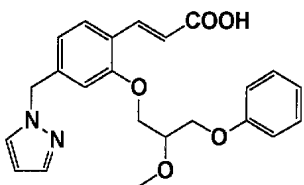
(2E)-3-(2-(2-()))-4-(-1-))-2-



TLC: Rf 0.31(: =10:1);

NMR(300MHz, CDCl₃): 7.92(d, J=15.5Hz, 1H), 7.77(d, J=7.0Hz, 2H), 7.56(s, 1H), 7.50-7.36(br, 5H), 6.81-6.64(m, 4H), 6.30(br, 1H), 5.30(br, 2H), 4.15(br, 2H), 3.92(br, 2H).3(40)

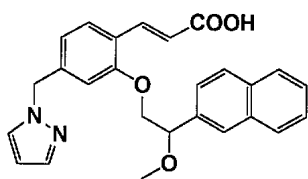
(2E)-3-(2-(2-(-3-))-4-(-1-))-2-



TLC: Rf 0.42(: =9:1);

NMR(300MHz, DMSO-d₆): 12.29(brs, 1H), 7.83(d, J=2.1Hz, 1H), 7.79(d, J=16.2Hz, 1H), 7.62(d, J=7.8Hz, 1H), 7.50-7.44(m, 1H), 7.34-7.23(m, 2H), 7.06-6.88(m, 4H), 6.74(d, J=8.1Hz, 1H), 6.53(d, J=16.2Hz, 1H), 6.28(t, J=2.1Hz, 1H), 5.33(s, 2H), 4.30-4.08(m, 4H), 4.00-3.88(m, 1H), 3.44(s, 3H).3(41)

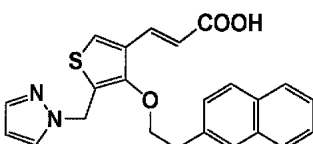
(2E)-3-(2-(2-(-2-(-2-)))-4-(-1-))-2-

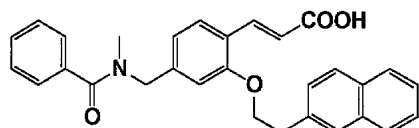


TLC: Rf 0.59(: =9:1);

NMR(300MHz, CDCl₃): 8.03(d, J=16Hz, 1H), 7.92-7.81(m, 4H), 7.57-7.42(m, 5H), 7.37(d, J=2.1Hz, 1H), 6.78(dd, J=8.0, 1.2Hz, 1H), 6.70(d, J=1.2Hz, 1H), 6.60(d, J=16Hz, 1H), 6.28(t, J=2.1Hz, 1H), 5.28(s, 2H), 4.78(dd, J=7.2, 4.5Hz, 1H), 4.27(dd, J=9.9, 7.2Hz, 1H), 4.12(dd, J=9.9, 4.5Hz, 1H), 3.41(s, 3H).3(42)

(2E)-3-(2-(-1-)-3-(2-(-2-)) -4-)-2-



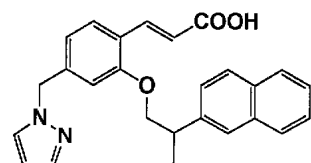


TLC: Rf 0.58(: =9:1);

NMR(300MHz, CDCl₃): 8.11(d, J=16Hz, 1H), 7.89-7.75(m, 4H), 7.55-7.30(m, 9H), 7.02-6.61(m, 2H), 6.55(d, J=16Hz, 1H), 4.80-4.22(m, 4H), 3.34(t, J=6.6Hz, 2H), 3.12-2.78(m, 3H).

3(47)

(2E)-3-(2-(2-(-2-))-4-(-1-))-2-

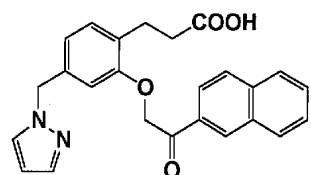


TLC: Rf 0.64(: =9:1);

NMR(300MHz, CDCl₃): 8.02(d, J=16Hz, 1H), 7.88-7.74(m, 4H), 7.57(d, J=1.8Hz, 1H), 7.50-7.36(m, 5H), 6.76(d, J=8.1Hz, 1H), 6.72(s, 1H), 6.49(d, J=16Hz, 1H), 6.29(t, J=2.3Hz, 1H), 5.29(s, 2H), 4.20-4.06(m, 2H), 3.47(m, 1H), 1.54(d, J=6.9Hz, 3H).

3(48)

3-(2-((-2-))-4-(-1-))

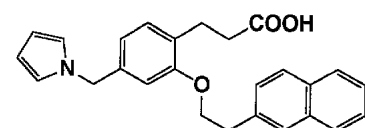


TLC: Rf 0.57(: =10:1);

NMR(300MHz, DMSO-d₆): 12.08(brs, 1H), 8.76(s, 1H), 8.20-7.95(m, 4H), 7.75-7.60(m, 3H), 7.36(d, J=0.9Hz, 1H), 7.14(d, J=7.8Hz, 1H), 6.91(s, 1H), 6.67(d, J=7.8Hz, 1H), 6.18(t, J=2.0Hz, 1H), 5.72(s, 2H), 5.23(s, 2H), 2.86(t, J=7.7Hz, 2H), 2.57(t, J=7.7Hz, 2H).

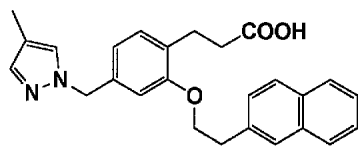
3(49)

3-(2-(2-(-2-))-4-(-1-))



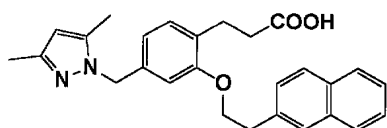
TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.76(m, 3H), 7.72(s, 1H), 7.47-7.37(m, 3H), 7.07(d, J=7.5Hz, 1H), 6.66(t, J=2.1Hz, 2H), 6.63(d, J=7.5Hz, 1H), 6.55(d, J=1.5Hz, 1H), 6.18(t, J=2.1Hz, 2H), 4.98(s, 2H), 4.19(t, J=6.6Hz, 2H), 3.23(t, J=6.6Hz, 2H), 2.87(t, J=7.8Hz, 2H), 2.50(t, J=7.8Hz, 2H).

3(50)3-(2-(2-(
-2-))-4-(4-
-1-)))

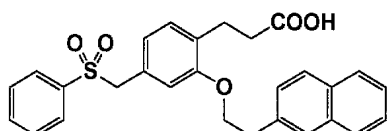
TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 7.83-7.75(m, 3H), 7.72(s, 1H), 7.46-7.37(m, 3H), 7.32(s, 1H), 7.12-7.06(m, 2H), 6.72-6.68(m, 2H), 5.15(s, 2H), 4.21(t, J=6.6Hz, 2H), 3.23(t, J=6.6Hz, 2H), 2.87(t, J=7.8Hz, 2H), 2.50(t, J=7.8 Hz, 2H), 2.03(s, 3H).

3(51)3-(2-(2-(
-2-))-4-(3,5-
-1-)))

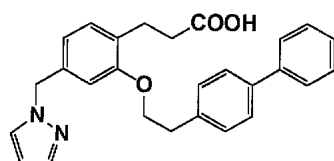
TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 7.83-7.75(m, 3H), 7.71(s, 1H), 7.46-7.37(m, 3H), 7.04(d, J=7.8Hz, 1H), 6.59(s, 1 H), 6.55(d, J=7.8Hz, 1H), 5.82(s, 1H), 5.13(s, 2H), 4.19(t, J=6.6Hz, 2H), 3.21(t, J=6.6Hz, 2H), 2.85(t, J=7.8Hz, 2H), 2.49(t, J=7.8Hz, 2H), 2.23(s, 3H), 2.12(s, 3H).

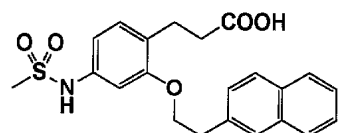
3(52)3-(2-(2-(
-2-))-4-))

TLC: Rf 0.46(: =1:1);

NMR(300MHz, CDCl₃): 7.85-7.77(m, 3H), 7.72(s, 1H), 7.66-7.37(m, 8H), 6.99(d, J=7.2Hz, 1H), 6.58(d, J=1.8Hz, 1H), 6.41(dd, J=7.2, 1.8Hz, 1H), 4.23(s, 2H), 4.12(t, J=6.6Hz, 2H), 3.22(t, J=6.6Hz, 2H), 2.86(t, J=7.8 Hz, 2H), 2.49(t, J=7.8Hz, 2H).

3(53)3-(2-(2-(1,1'-
-4-))-4-(
-1-)))

TLC: Rf 0.067();

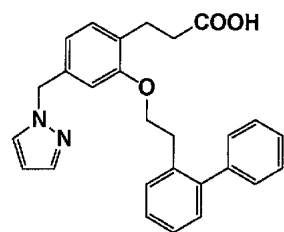


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 12.1(s, 1H), 9.55(s, 1H), 7.92-7.80(m, 4H), 7.53-7.42(m, 3H), 7.04(d, J=8.1Hz, 1H), 6.81(d, J=2.4Hz, 1H), 6.67(dd, J=8.1, 2.4Hz, 1H), 4.20(t, J=6.3Hz, 2H), 3.21(t, J=6.3Hz, 2H), 2.92(s, 3H), 2.68(t, J=7.8Hz, 2H), 2.35(t, J=7.8Hz, 2H).

3(58)

3-(2-(2-(1,1'- -2-))-4-(-1-))

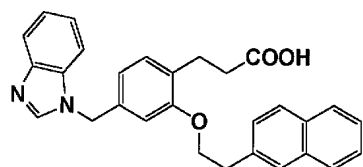


TLC: Rf 0.16(: =2:1);

NMR(300MHz, CDCl₃): 7.53(d, J=3.0Hz, 1H), 7.45-7.21(m, 10H), 7.07(d, J=7.8Hz, 1H), 6.67(dd, J=7.5, 1.2Hz, 1H), 6.51(s, 1H), 6.26(t, J=2.1Hz, 1H), 5.21(s, 2H), 3.94(t, J=7.2Hz, 2H), 3.08(t, J=7.2Hz, 2H), 2.82(t, J=7.5Hz, 2H), 2.47(t, J=7.5Hz, 2H).

3(59)

3-(2-(2-(-2-))-4-(-1-))

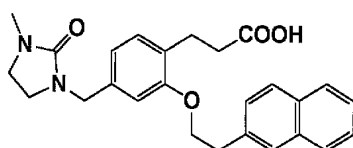


TLC: Rf 0.51(: =10:1);

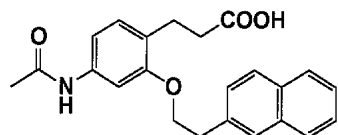
NMR(300MHz, DMSO-d₆): 8.72(s, 1H), 7.89-7.82(m, 3H), 7.80(s, 1H), 7.71-7.61(m, 2H), 7.52-7.42(m, 3H), 7.30-7.23(m, 2H), 7.07(s, 1H), 7.06(d, J=7.5Hz, 1H), 6.78(d, J=7.8Hz, 1H), 5.46(s, 2H), 4.22(t, J=6.6Hz, 2H), 3.18(t, J=6.6Hz, 2H), 2.69(t, J=8.1Hz, 2H), 2.34(t, J=8.1Hz, 2H).

3(60)

3-(2-(2-(-2-))-4-(3- -2- -1-))



TLC: Rf 0.53(: =10:1);

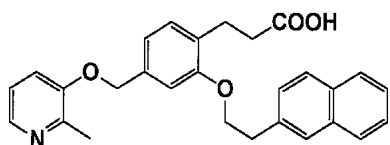


TLC: Rf 0.41(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.72(m, 4H), 7.48-7.38(m, 4H), 7.10(d, J=1.8Hz, 1H), 7.03(d, J=8.1Hz, 1H), 6.69(dd, J=8.1, 1.8Hz, 1H), 4.29(t, J=6.6Hz, 2H), 3.27(t, J=6.6Hz, 2H), 2.84(t, J=7.5Hz, 2H), 2.48(t, J=7.5Hz, 2H), 2.15(s, 3H).

_____ 3(65)

3-(2-(2-(-2-))-4-(2- -3-))

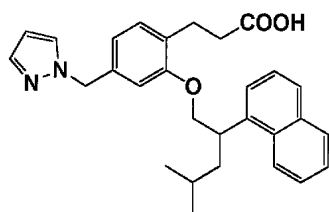


TLC: Rf 0.56(: =9:1);

NMR(300MHz, DMSO-d₆): 7.98(dd, J=4.8, 1.2Hz, 1H), 7.89-7.80(m, 4H), 7.53-7.41(m, 3H), 7.35(dd, J=8.3, 1.1Hz, 1H), 7.18-7.05(m, 3H), 6.92(dd, J=7.7, 1.4Hz, 1H), 5.07(s, 2H), 4.28(t, J=6.4Hz, 2H), 3.21(t, J=6.4 Hz, 2H), 2.73(t, J=7.8Hz, 2H), 2.38(t, J=7.8Hz, 2H), 2.37(s, 3H).

_____ 3(66)

3-(2-(4- -2-(-1-))-4-(-1-))

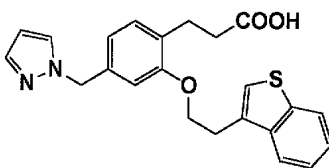


TLC: Rf 0.59(: =10:1);

NMR(300MHz, DMSO-d₆): 8.23(d, J=8.4Hz, 1H), 7.91(m, 1H), 7.84-7.68(m, 2H), 7.62-7.34(m, 5H), 6.98(d, J=7.2Hz, 1H), 6.81(s, 1H), 6.60(d, J=7.2Hz, 1H), 6.20(t, J=2.1Hz, 1H), 5.18(s, 2H), 4.18-3.99(m, 3H), 2.54(t, J=7.5Hz, 2H), 2.16(t, J=7.5Hz, 2H), 1.99-1.78(m, 2H), 1.44(m, 1H), 0.87(d, J=6.6Hz, 3H), 0.82(d, J=6.6Hz, 3H).

_____ 3(67)

3-(2-(2-(-3-))-4-(-1-))

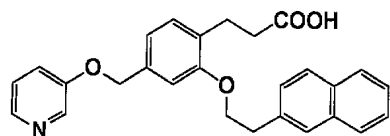


TLC: Rf 0.49(: =10:1);

NMR(300MHz, DMSO-d₆): 7.97(dd, J=6.6, 1.2Hz, 1H), 7.90(dd, J=6.6, 1.5Hz, 1H), 7.76(d, J=1.5Hz, 1H), 7.54(s, 1H), 7.45-7.33(m, 3H), 7.04(d, J=7.8Hz, 1H), 6.88(s, 1H), 6.64(d, J=7.8Hz, 1H), 6.23(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.22(t, J=6.6Hz, 2H), 3.31(t, J=6.6Hz, 2H), 2.68(t, J=7.5Hz, 2H), 2.33(t, J=7.5Hz, 2H).

3(68)

3-(2-(2-(
-2-))-4-(
-3-))

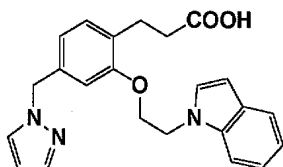


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 8.32(d, J=2.7Hz, 1H), 8.14(dd, J=4.7, 1.4Hz, 1H), 7.89-7.80(m, 4H), 7.54-7.38(m, 4H), 7.30(m, 1H), 7.11(d, J=7.8Hz, 1H), 7.06(d, J=1.5Hz, 1H), 6.92(dd, J=7.8, 1.5Hz, 1H), 5.09(s, 2H), 4.27(t, J=6.4Hz, 2H), 3.21(t, J=6.4Hz, 2H), 2.73(t, J=7.6Hz, 2H), 2.38(t, J=7.6Hz, 2H).

3(69)

3-(2-(2-(
-1-))-4-(
-1-))

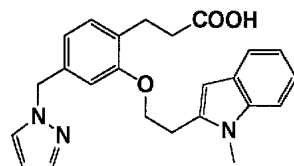


TLC: Rf 0.48(: =1:2);

NMR(300MHz, CDCl₃): 7.61(d, J=8.1Hz, 1H), 7.53(dd, J=2.1, 0.6Hz, 1H), 7.37(dd, J=8.1, 0.8Hz, 1H), 7.31(dd, J=2.1, 0.6Hz, 1H), 7.25-7.17(m, 2H), 7.13-7.05(m, 2H), 6.71(dd, J=7.7, 1.7Hz, 1H), 6.56(d, J=1.2Hz, 1H), 6.50(dd, J=3.3, 0.9Hz, 1H), 6.25(t, J=2.1Hz, 1H), 5.20(s, 2H), 4.51(t, J=5.3Hz, 2H), 4.20(t, J=5.3Hz, 2H), 2.82(t, J=7.7Hz, 2H), 2.44(t, J=7.7Hz, 2H).

3(70)

3-(2-(2-(1-
-2-))-4-(
-1-))

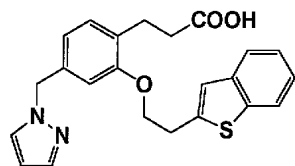


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 7.60(d, J=7.8Hz, 1H), 7.53(d, J=1.8Hz, 1H), 7.33(d, J=1.8Hz, 1H), 7.32-7.05(m, 4H), 6.95(s, 1H), 6.73-6.65(m, 2H), 6.25(t, J=1.8Hz, 1H), 5.23(s, 2H), 4.16(t, J=6.6Hz, 2H), 3.72(s, 3H), 3.22(t, J=6.6Hz, 2H), 2.90(t, J=7.8Hz, 2H), 2.55(t, J=7.8Hz, 2H).

3(71)

3-(2-(2-(
-2-))-4-(
-1-))

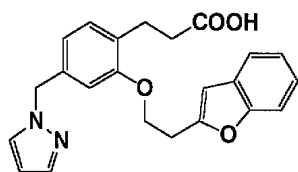


TLC: Rf 0.47(: =10:1);

NMR(300MHz, DMSO- d_6): 7.86(m, 1H), 7.78(d, J=1.8Hz, 1H), 7.73(m, 1H), 7.43(d, J=1.8Hz, 1H), 7.35-7.23(m, 3H), 7.07(d, J=7.5Hz, 1H), 6.88(s, 1H), 6.66(d, J=7.5Hz, 1H), 6.24(t, J=1.8Hz, 1H), 5.25(s, 2H), 4.20(t, J=6.0Hz, 2H), 3.36(t, J=6.0Hz, 2H), 2.76(t, J=7.8Hz, 2H), 2.39(t, J=7.8Hz, 2H).

_____ 3(72)

3-(2-(2-(-2-))-4-(-1-)))

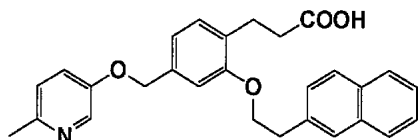


TLC: Rf 0.45(: =10:1);

NMR(300MHz, DMSO- d_6): 7.78(d, J=1.8Hz, 1H), 7.55-7.46(m, 2H), 7.43(d, J=1.8Hz, 1H), 7.26-7.14(m, 2H), 7.05(d, J=7.8Hz, 1H), 6.91(s, 1H), 6.70-6.62(m, 2H), 6.24(t, J=1.8Hz, 1H), 5.25(s, 2H), 4.26(t, J=6.3Hz, 2H), 3.25(t, J=6.3Hz, 2H), 2.68(t, J=7.8Hz, 2H), 2.35(t, J=7.8Hz, 2H).

_____ 3(73)

3-(2-(2-(-2-))-4-(2- -5-)))

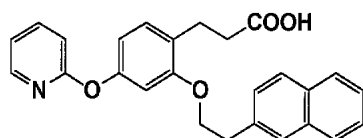


TLC: Rf 0.39(: =9:1);

NMR(300MHz, CDCl $_3$): 8.24(d, J=3.0Hz, 1H), 7.85-7.72(m, 4H), 7.50-7.38(m, 3H), 7.20-7.12(m, 2H), 7.04(d, J=8.4Hz, 1H), 6.95-6.85(m, 2H), 4.99(s, 2H), 4.29(t, J=6.6Hz, 2H), 3.28(t, J=6.6Hz, 2H), 2.91(t, J=8.1Hz, 2H), 2.54(t, J=8.1Hz, 2H), 2.48(s, 3H).

_____ 3(74)

3-(2-(2-(-2-))-4-(-2-)))



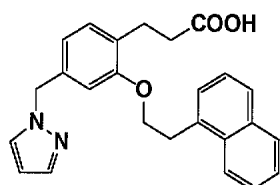
TLC: Rf 0.41(: =1:1);

NMR(300MHz, CDCl $_3$): 8.20(m, 1H), 7.84-7.61(m, 5H), 7.48-7.37(m, 3H), 7.13(d, J=8.1Hz, 1H), 6.97(m, 1H), 6.86(dt, J=8.4, 1.1Hz, 1H), 6.68-6.59(m, 2H), 4.22(t, J=6.7Hz, 2H), 3.26(t, J=6.7Hz, 2H), 2.90(t, J=7.9Hz,

2H), 2.55(t, J=7.9Hz, 2H).

_____ 3(75)

3-(2-(2-(
-1-))-4-(
-1-))

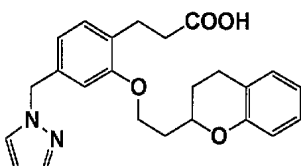


TLC: Rf 0.30(: =10:1);

NMR(300MHz, CDCl₃): 8.07(d, J=8.1Hz, 1H), 7.87(d, J=7.5Hz, 1H), 7.76(dd, J=6.3, 3.3Hz, 1H), 7.57-7.42(m, 5H), 7.33(d, J=2.4Hz, 1H), 7.08(d, J=7.5Hz, 1H), 6.69(d, J=7.5Hz, 1H), 6.66(s, 1H), 6.24(t, J=2.4Hz, 1H), 5.21(s, 2H), 4.27(t, J=6.6Hz, 2H), 3.56(t, J=6.6Hz, 2H), 2.85(t, J=7.2Hz, 2H), 2.49(t, J=7.2Hz, 2H).

_____ 3(76)

3-(2-(2-(
-2-))-4-(
-1-))

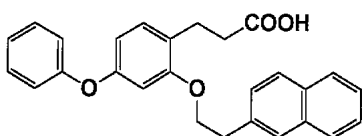


TLC: Rf 0.31(: =10:1);

NMR(300MHz, CDCl₃): 7.55(d, J=1.2Hz, 1H), 7.39(d, J=1.8Hz, 1H), 7.13(d, J=8.4Hz, 1H), 7.09-7.02(m, 2H), 6.87-6.70(m, 4H), 6.28(t, J=1.8Hz, 1H), 5.28(s, 2H), 4.35-4.09(m, 3H), 2.92(t, J=7.2Hz, 2H), 2.90-2.70(m, 2H), 2.61(t, J=7.2Hz, 2H), 2.20-2.00(m, 3H), 1.88-1.75(m, 1H).

_____ 3(77)

3-(2-(2-(
-2-))-4-

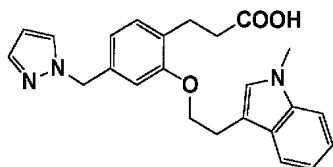


TLC: Rf 0.60(: =1:1);

NMR(300MHz, CDCl₃): 7.84-7.70(m, 4H), 7.50-7.25(m, 5H), 7.14-6.94(m, 4H), 6.56(d, J=2.4Hz, 1H), 6.47(dd, J=8.1, 2.4Hz, 1H), 4.19(t, J=6.5Hz, 2H), 3.25(t, J=6.5Hz, 2H), 2.88(t, J=7.8Hz, 2H), 2.53(t, J=7.8Hz, 2H).

_____ 3(78)

3-(2-(2-(1-
-3-))-4-(
-1-))

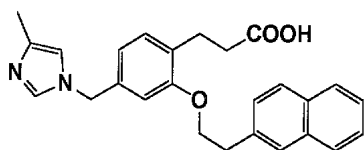


TLC: Rf 0.38(: =15:1);

NMR(300MHz, CDCl₃): 7.61(m, 1H), 7.53(d, J=1.8Hz, 1H), 7.34(d, J=1.8Hz, 1H), 7.33-7.19(m, 3H), 7.16-7.08(m, 2H), 6.96(s, 1H), 6.74-6.66(m, 2H), 6.25(t, J=1.8Hz, 1H), 5.23(s, 2H), 4.17(t, J=6.6Hz, 2H), 3.75(s, 3H), 3.22(t, J=6.6Hz, 2H), 2.91(t, J=8.1Hz, 2H), 2.56(t, J=8.1Hz, 2H).

_____ 3(79)

3-(2-(2-(-2-))-4-(4- -1-))

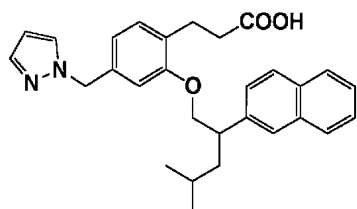


TLC: Rf 0.45(: =7:1);

NMR(300MHz, CDCl₃): 7.84-7.58(m, 5H), 7.47-7.36(m, 3H), 7.14-7.07(m, 1H), 6.88-6.44(m, 3H), 4.93-4.91(s, 2H), 4.22-4.08(m, 2H), 3.27-3.17(m, 2H), 2.95-2.85(m, 2H), 2.60-2.49(m, 2H), 2.20-2.08(s, 3H).

_____ 3(80)

3-(2-(4- -2-(-2-))-4-(-1-))

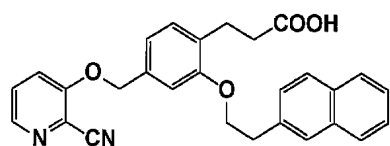


TLC: Rf 0.47(: =10:1);

NMR(300MHz, CDCl₃): 7.83-7.76(m, 3H), 7.70(s, 1H), 7.53(d, J=1.8Hz, 1H), 7.47-7.37(m, 3H), 7.34(d, J=1.8Hz, 1H), 7.05(d, J=7.5Hz, 1H), 6.71-6.64(m, 2H), 6.26(t, J=1.8Hz, 1H), 5.23(s, 2H), 4.14-3.99(m, 2H), 3.33(m, 1H), 2.89-2.66(m, 2H), 2.35(t, J=7.5Hz, 2H), 1.88-1.42(m, 3H), 0.91(d, J=6.3Hz, 3H), 0.89(d, J=6.3Hz, 3H).

_____ 3(81)

3-(2-(2-(-2-))-4-(2- -3-))

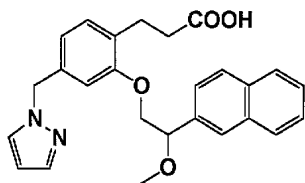


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 8.27(dd, J=4.5, 1.2Hz, 1H), 7.84-7.70(m, 4H), 7.50-7.27(m, 5H), 7.13(d, J=7.8Hz, 1H), 6.96(s, 1H), 6.87(d, J=7.5Hz, 1H), 5.17(s, 2H), 4.31(t, J=6.3Hz, 2H), 3.28(t, J=6.3Hz, 2H), 2.89(t, J=8.1 Hz, 2H), 2.52(t, J=8.1Hz, 2H).

3(82)

3-(2-(2- -2-(-2-))-4-(-1-))

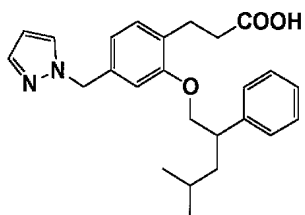


TLC: Rf 0.31(: =10:1);

NMR(300MHz, CDCl₃): 7.90-7.80(m, 4H), 7.55-7.45(m, 4H), 7.33(d, J=2.1Hz, 1H), 7.08(d, J=7.8Hz, 1H), 6.71(dd, J=7.8, 1.5Hz, 1H), 6.64(s, 1H), 6.25(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.73(dd, J=6.9, 4.8Hz, 1H), 4.22(dd, J=9.9, 6.9Hz, 1H), 4.07(dd, J=9.9, 4.8Hz, 1H), 3.37(s, 3H), 2.87(t, J=7.5Hz, 2H), 2.53(dt, 7.5, 7.5Hz, 2H).

3(83)

3-(2-(4- -2-)-4-(-1-))

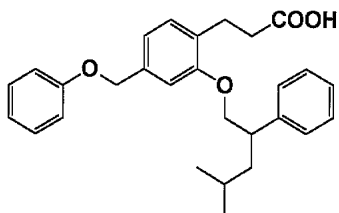


TLC: Rf 0.44(: =10:1);

NMR(300MHz, CDCl₃): 7.54(m, 1H), 7.38-7.17(m, 6H), 7.07(d, J=7.5Hz, 1H), 6.69(dd, J=7.5, 1.5Hz, 1H), 6.65(s, 1H), 6.26(t, J=2.4Hz, 1H), 5.24(s, 2H), 4.06-3.91(m, 2H), 3.15(m, 1H), 2.90-2.68(m, 2H), 2.40(t, J=7.8Hz, 2H), 1.78-1.40(m, 3H), 0.89(d, J=6.6Hz, 3H), 0.87(d, J=6.6Hz, 3H).

3(84)

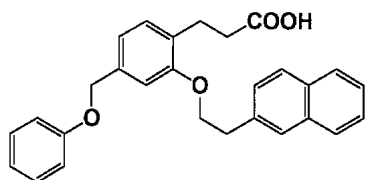
3-(2-(4- -2-)-4-)



TLC: Rf 0.35(: =2:1).

3(85)

3-(2-(2-(-2-))-4-)

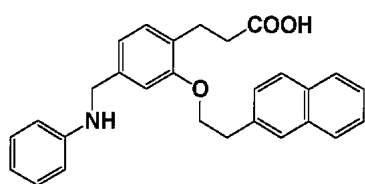


TLC: Rf 0.21(: =2:1);

NMR(300MHz, CDCl₃): 7.82-7.78(m, 3H), 7.74(brs, 1H), 7.48-7.39(m, 3H), 7.30-7.25(m, 2H), 7.13(d, J=7.8Hz, 1H), 6.97-6.90(m, 5H), 4.99(s, 2H), 4.29(t, J=6.6Hz, 2H), 3.27(t, J=6.6Hz, 2H), 2.93-2.88(m, 2H), 2.56-2.51(m, 2H).

3(86)

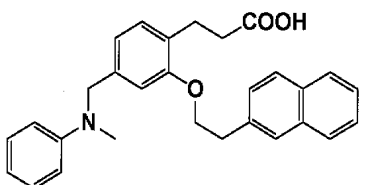
3-(2-(2-(-2-))-4-



TLC: Rf 0.45(: =9:1).

3(87)

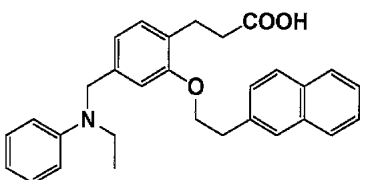
3-(2-(2-(-2-))-4-(N- -N-))



TLC: Rf 0.45(: =9:1).

3(88)

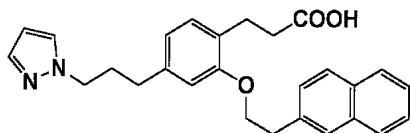
3-(2-(2-(-2-))-4-(N- -N-))



TLC: Rf 0.45(: =9:1).

3(89)

3-(2-(2-(-2-))-4-(3-(-1-)))

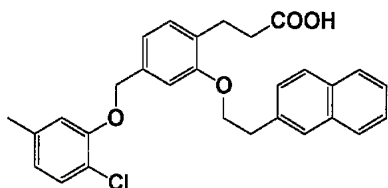


TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.76(m, 3H), 7.75(s, 1H), 7.51(d, J=2.1Hz, 1H), 7.49-7.38(m, 3H), 7.33(d, J=2.1Hz, 1H), 7.03(d, J=7.5Hz, 1H), 6.69-6.61(m, 2H), 6.23(t, J=2.1Hz, 1H), 4.25(t, J=6.6Hz, 2H), 4.11(t, J=7.2 Hz, 2H), 3.27(t, J=6.6Hz, 2H), 2.87(t, J=7.2Hz, 2H), 2.58-2.47(m, 4H), 2.22-2.10(m, 2H).

_____ 3(90)

3-(2-(2-(-2-))-4-(2- -5-))

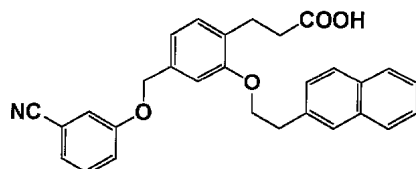


TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 7.84-7.72(m, 4H), 7.49-7.38(m, 3H), 7.24(d, J=8.1Hz, 1H), 7.13(d, J=7.5Hz, 1H), 7.03(s, 1H), 6.95-6.89(m, 1H), 6.77(s, 1H), 6.74-6.68(m, 1H), 5.06(s, 2H), 4.31(t, J=6.6Hz, 2H), 3.28(t, J=6.6 Hz, 2H), 2.90(t, J=8.1Hz, 2H), 2.53(t, J=8.1Hz, 2H), 2.29(s, 3H).

_____ 3(91)

3-(2-(2-(-2-))-4-(3-))

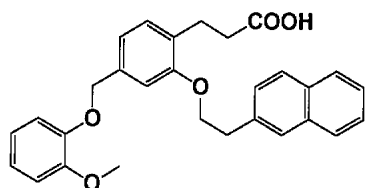


TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 7.84-7.72(m, 4H), 7.50-7.31(m, 4H), 7.28-7.12(m, 4H), 6.92-6.86(m, 2H), 4.99(s, 2H), 4.29(t, J=6.6Hz, 2H), 3.28(t, J=6.6Hz, 2H), 2.91(t, J=8.1Hz, 2H), 2.54(t, J=8.1Hz, 2H).

_____ 3(92)

3-(2-(2-(-2-))-4-(2-))

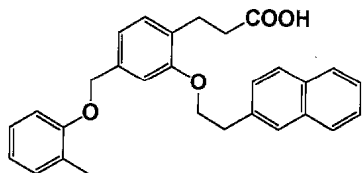


TLC: Rf 0.54(: =9:1);

NMR(300MHz, CDCl₃): 7.84-7.70(m, 4H), 7.50-7.38(m, 3H), 7.11(d, J=7.5Hz, 1H), 7.00-6.80(m, 6H), 5.09(s, 2H), 4.28(t, J=6.3Hz, 2H), 3.86(s, 3H), 3.26(t, J=6.3Hz, 2H), 2.89(t, J=7.8Hz, 2H), 2.51(t, J=7.8Hz, 2H).

3(93)

3-(2-(2-(
-2-))-4-(2-))

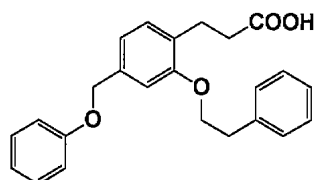


TLC: Rf 0.54(: =9:1);

NMR(300MHz, CDCl₃): 7.84-7.72(m, 4H), 7.50-7.38(m, 3H), 7.20-7.10(m, 3H), 6.98-6.82(m, 4H), 5.01(s, 2H), 4.30(t, J=6.6Hz, 2H), 3.28(t, J=6.6Hz, 2H), 2.91(t, J=7.8Hz, 2H), 2.53(t, J=7.8Hz, 2H), 2.27(s, 3H).

3(94)

3-(2-(2-)-4-)

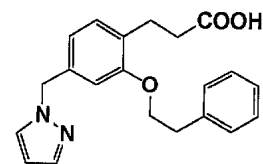


TLC: Rf 0.65(: =1:1);

NMR(300MHz, CDCl₃): 7.34-7.19(m, 7H), 7.13(m, 1H), 6.99-6.90(m, 5H), 4.99(s, 2H), 4.20(t, J=6.6Hz, 2H), 3.11(t, J=6.6Hz, 2H), 2.93-2.87(m, 2H), 2.57-2.52(m, 2H).

3(95)

3-(2-(2-)-4-(-1-))

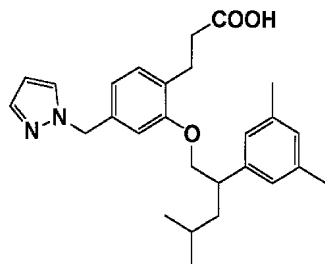


TLC: Rf 0.58(: =9:1);

NMR(300MHz, CDCl₃): 7.54(d, J=1.5Hz, 1H), 7.36-7.20(m, 6H), 7.09(d, J=7.2Hz, 1H), 6.71(d, J=7.5Hz, 1H), 6.66(s, 1H), 6.26(t, J=1.8Hz, 1H), 5.22(s, 2H), 4.12(t, J=6.6Hz, 2H), 3.07(t, J=6.6Hz, 2H), 2.86(t, J=7.8Hz, 2H), 2.51(t, J=7.8Hz, 2H).

3(96)

3-(2-(4- -2-(3,5-))-4-(-1-))

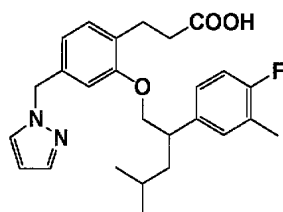


TLC: Rf 0.50();

NMR(300MHz, CDCl₃): 7.54(d, J=2.1Hz, 1H), 7.35(d, J=2.1Hz, 1H), 7.08(d, J=7.8Hz, 1H), 6.84(s, 3H), 6.69(d, J=7.8Hz, 1H), 6.65(s, 1H), 6.26(d, J=2.1Hz, 1H), 5.23(s, 2H), 4.01-3.89(m, 2H), 3.12-3.02(m, 1H), 2.90-2.72(m, 2H), 2.45(t, J=7.8Hz, 2H), 2.29(s, 6H), 1.71-1.42(m, 3H), 0.90-0.87(m, 6H).

3(97)

3-(2-(4- -2-(4- -3-))-4-(-1-))

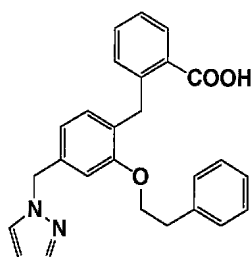


TLC: Rf 0.47(: =19:1);

NMR(300MHz, CDCl₃): 7.54(dd, J=2.1, 0.5Hz, 1H), 7.35(dd, J=2.1, 0.5Hz, 1H), 7.10-6.87(m, 4H), 6.71(d, J=7.4, 1.4Hz, 1H), 6.64(d, J=1.4Hz, 1H), 6.27(t, J=2.1Hz, 1H), 5.24(s, 2H), 3.98(dd, J=8.9, 6.0Hz, 1H), 3.89(dd, J=8.9, 7.5Hz, 1H), 3.09(m, 1H), 2.89-2.68(m, 2H), 2.41(t, J=8.0Hz, 2H), 2.24(d, J=1.8Hz, 3H), 1.71-1.37(m, 3H), 0.89(d, J=6.6Hz, 3H), 0.88(d, J=6.6Hz, 3H).

3(98)

2-(2-(2-)-4-(-1-))

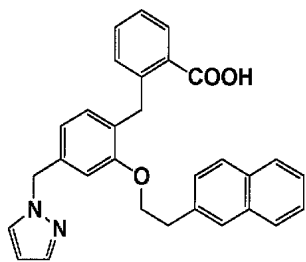


TLC: Rf 0.34(: =20:1);

NMR(300MHz, CDCl₃): 8.01(dd, J=7.8, 1.5Hz, 1H), 7.54(d, J=1.8Hz, 1H), 7.40-7.15(m, 8H), 7.06(d, J=7.8 Hz, 1H), 6.89(d, J=7.8Hz, 1H), 6.70-6.65(m, 2H), 6.25(t, J=2.1Hz, 1H), 5.21(s, 2H), 4.35(s, 2H), 4.08(t, J=6.9 Hz, 2H), 2.97(t, J=6.9Hz, 2H).

3(99)

2-(2-(2-(-2-))-4-(-1-))

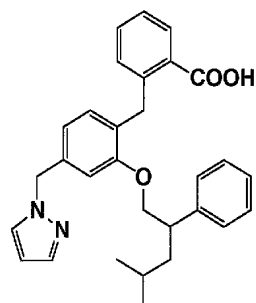


TLC: Rf 0.34(: =20:1);

NMR(300MHz, CDCl₃): 7.98(dd, J=7.8, 1.5Hz, 1H), 7.80-7.67(m, 3H), 7.60(s, 1H), 7.53(d, J=1.8Hz, 1H), 7.43-7.38(m, 2H), 7.32-7.18(m, 4H), 6.99(d, J=7.8Hz, 1H), 6.87(d, J=7.8Hz, 1H), 6.67-6.60(m, 2H), 6.23(s, 1H), 5.18(s, 2H), 4.35(s, 2H), 4.14(t, J=6.3Hz, 2H), 3.11(t, J=6.3Hz, 2H).

3(100)

2-(2-(4- -2-)-4-(-1-))

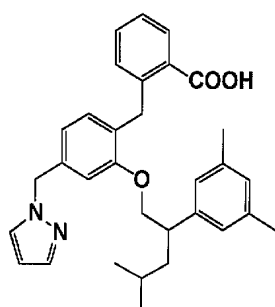


TLC: Rf 0.58(: =10:1);

NMR(300MHz, DMSO-d₆): 8.04(d, J=7.5Hz, 1H), 7.54(d, J=2.1Hz, 1H), 7.40-7.10(m, 8H), 6.97(d, J=7.8Hz, 1H), 6.90(d, J=7.2Hz, 1H), 6.70-6.60(m, 2H), 6.25(t, J=2.1Hz, 1H), 5.19(s, 2H), 4.36(d, J=16.5Hz, 1H), 4.27(d, J=16.5Hz, 1H), 3.94(d, J=6.3Hz, 2H), 3.02(m, 1H), 1.62-1.20(m, 3H), 0.79(d, J=6.3Hz, 6H).

3(101)

2-(2-(4- -2-(3,5-))-4-(-1-))

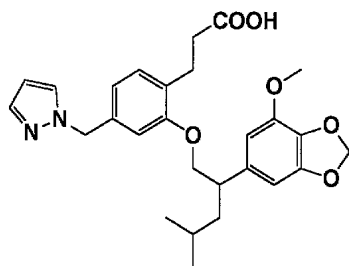


TLC: Rf 0.60(: =10:1);

NMR(300MHz, DMSO-d₆): 8.03(dd, J=7.5, 1.2Hz, 1H), 7.54(d, J=1.8Hz, 1H), 7.40-7.23(m, 3H), 6.99(d, J=6.9Hz, 1H), 6.89(d, J=8.1Hz, 1H), 6.84-6.76(m, 3H), 6.68-6.60(m, 2H), 6.24(t, J=1.8Hz, 1H), 5.17(s, 2H), 4.39(d, J=16.2Hz, 1H), 4.31(d, J=16.2Hz, 1H), 3.90(d, J=6.3Hz, 2H), 2.96(m, 1H), 2.24(s, 6H), 1.60-1.26(m, 3H), 0.79(d, J=6.3Hz, 6H).

3(102)

3-(2-(4- -2-(4- -1,3- -6-))-4-(-1-))

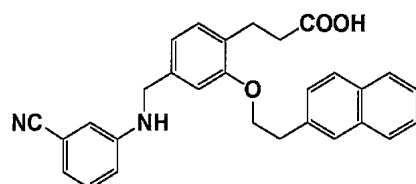


TLC: Rf 0.65();

NMR(300MHz, CDCl₃): 7.54(d, J=2.1Hz, 1H), 7.36(d, J=2.1Hz, 1H), 7.08(d, J=7.2Hz, 1H), 6.70(d, J=7.2Hz, 1H), 6.65(s, 1H), 6.44(d, J=1.5Hz, 1H), 6.40(d, J=1.5Hz, 1H), 6.27(t, J=2.1Hz, 1H), 5.93-5.91(m, 2H), 5.24(s, 2H), 4.00-3.85(m, 2H), 3.89(s, 3H), 3.10-3.00(m, 1H), 2.91-2.71(m, 2H), 2.43(t, J=7.5Hz, 2H), 1.66-1.43(m, 3H), 0.90-0.87(m, 6H).

3(103)

3-(2-(2-(-2-))-4-(3-))

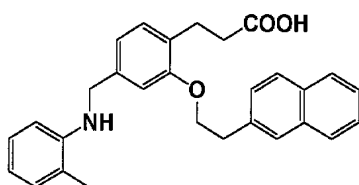


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.84-7.75(m, 3H), 7.73(s, 1H), 7.49-7.38(m, 3H), 7.22(t, J=7.8Hz, 1H), 7.11(d, J=7.8Hz, 1H), 6.96(d, J=7.8Hz, 1H), 6.86-6.74(m, 4H), 4.30-4.20(m, 4H), 3.27(t, J=6.3Hz, 2H), 2.90(t, J=7.8Hz, 2H), 2.54(t, J=7.8Hz, 2H).

3(104)

3-(2-(2-(-2-))-4-(2-))

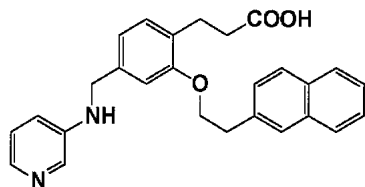


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.84-7.76(m, 3H), 7.73(s, 1H), 7.50-7.38(m, 3H), 7.14-7.04(m, 3H), 6.92-6.84(m, 2H), 6.67(t, J=7.8Hz, 1H), 6.60(d, J=7.8Hz, 1H), 4.32-4.22(m, 4H), 3.26(t, J=6.3Hz, 2H), 2.90(t, J=8.1Hz, 2H), 2.53(t, J=8.1Hz, 2H), 2.15(s, 3H).

3(105)

3-(2-(2-(-2-))-4-(-3-))

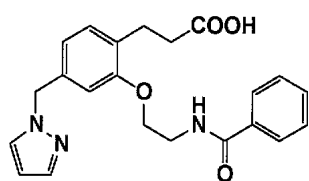


TLC: Rf 0.41(: =9:1);

NMR(300MHz, CDCl₃): 8.05(d, J=2.7Hz, 1H), 7.94(dd, J=4.5, 1.5Hz, 1H), 7.84-7.74(m, 3H), 7.72(brs, 1H), 7.48-7.36(m, 3H), 7.14-7.04(m, 2H), 6.92-6.78(m, 3H), 4.28-4.18(m, 4H), 3.25(t, J=6.6Hz, 2H), 2.91(t, J=7.5Hz, 2H), 2.55(t, J=7.5Hz, 2H).

_____ 3(106)

3-(2-(2-()))-4-(-1-))

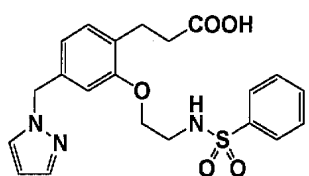


TLC: Rf 0.48(: =9:1);

NMR(300MHz, CD₃OD): 7.85-7.77(m, 2H), 7.65(d, J=2.1Hz, 1H), 7.55-7.40(m, 4H), 7.10(d, J=7.8Hz, 1H), 6.82(s, 1H), 6.70(d, J=7.5Hz, 1H), 6.30(dd, J=2.1, 2.1Hz, 1H), 5.28(s, 2H), 4.15(t, J=5.7Hz, 2H), 3.78(t, J=5.7Hz, 2H), 2.89(t, J=7.5Hz, 2H), 2.52(t, J=7.5Hz, 2H).

_____ 3(107)

3-(2-(2-()))-4-(-1-))

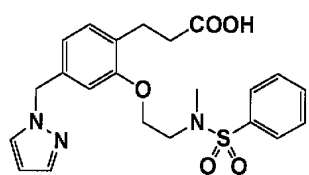


TLC: Rf 0.48(: =9:1);

NMR(300MHz, CD₃OD): 7.89-7.84(m, 2H), 7.64(d, J=2.1Hz, 1H), 7.58-7.46(m, 4H), 7.08(d, J=7.8Hz, 1H), 6.70(d, J=7.8Hz, 1H), 6.66(s, 1H), 6.31(t, J=2.1Hz, 1H), 5.26(s, 2H), 3.93(t, J=5.7Hz, 2H), 3.28(m, 2H), 2.83(t, J=7.5Hz, 2H), 2.49(t, J=7.5Hz, 2H).

_____ 3(108)

3-(2-(2-(N- -N-)))-4-(-1-))

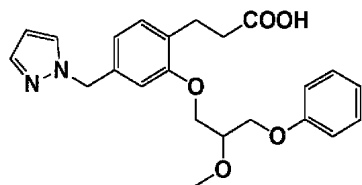


TLC: Rf 0.67(: =9:1);

NMR(300MHz, CDCl₃): 7.80(d, J=8.1Hz, 2H), 7.64-7.49(m, 4H), 7.40(d, J=2.1Hz, 1H), 7.13(d, J=7.8Hz, 1H), 6.76(d, J=7.8Hz, 1H), 6.65(d, J=2.1Hz, 1H), 6.29(t, J=2.1Hz, 1H), 5.27(s, 2H), 4.10(t, J=5.4Hz, 2H), 3.44(t, J=5.4Hz, 2H), 2.90(t, J=7.5Hz, 2H), 2.90(s, 3H), 2.61(t, J=7.5Hz, 2H).

3(109)

3-(2-(2- -3-)-4-(-1-))

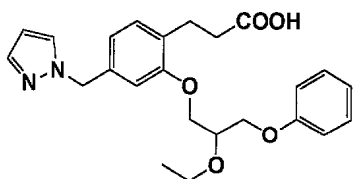


TLC: Rf 0.35();

NMR(300MHz, CDCl₃): 7.54(d, J=2.1Hz, 1H), 7.37(d, J=2.1Hz, 1H), 7.31-7.28(m, 2H), 7.12(d, J=7.2Hz, 1H), 6.98-6.91(m, 3H), 6.76-6.71(m, 2H), 6.28(t, J=2.1Hz, 1H), 5.26(s, 2H), 4.20-4.07(m, 4H), 3.97-3.90(m, 1H), 3.56(s, 3H), 2.93(t, J=7.5Hz, 2H), 2.64-2.58(m, 2H).

3(110)

3-(2-(2- -3-)-4-(-1-))

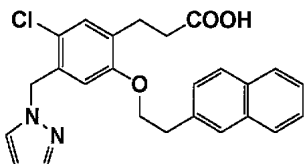


TLC: Rf 0.45();

NMR(300MHz, CDCl₃): 7.54(d, J=1.8Hz, 1H), 7.36(d, J=1.8Hz, 1H), 7.31-7.27(m, 2H), 7.12(d, J=7.5Hz, 1H), 6.98-6.91(m, 3H), 6.75-6.71(m, 2H), 6.27(t, J=1.8Hz, 1H), 5.26(s, 2H), 4.16-3.99(m, 5H), 3.75(q, J=6.9Hz, 2H), 2.96-2.90(m, 2H), 2.65-2.59(m, 2H), 1.24(t, J=6.9Hz, 3H).

3(111)

3-(2-(2-(-2-))-4-(-1-)-5-)

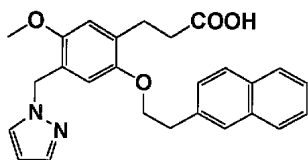


TLC: Rf 0.24(: =2:1, 0.5%);

NMR(300MHz, CDCl₃): 7.82-7.74(m, 3H), 7.68(s, 1H), 7.56(d, J=2.1Hz, 1H), 7.47-7.38(m, 3H), 7.36(dd, J=8.1, 1.8Hz, 1H), 7.13(s, 1H), 6.51(s, 1H), 6.28(t, J=2.1Hz, 1H), 5.36(s, 2H), 4.12(t, J=6.6Hz, 2H), 3.18(t, J=6.6Hz, 2H), 2.81(t, J=7.8Hz, 2H), 2.47(t, J=7.8Hz, 2H).

3(112)

3-(2-(2-(-2-))-4-(-1-)-5-)

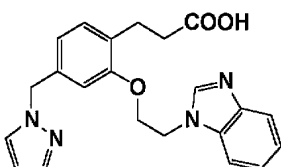


TLC: Rf 0.30(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 7.82-7.74(m, 3H), 7.69(bs, 1H), 7.52(d, J=2.1Hz, 1H), 7.47-7.35(m, 4H), 6.70(s, 1H), 6.59(s, 1H), 6.22(t, J=2.1Hz, 1H), 5.27(s, 2H), 4.14(t, J=6.6Hz, 2H), 3.76(s, 3H), 3.18(t, J=6.6Hz, 2H), 2.84(t, J=7.5Hz, 2H), 2.49(t, J=7.5Hz, 2H).

3(113)

3-(2-(2-(-1-))-4-(-1-))

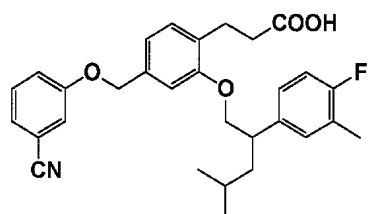


TLC: Rf 0.55(: =5:1);

NMR(300MHz, DMSO-d₆): 8.24(s, 1H), 7.74(m, 1H), 7.68(d, J=7.8Hz, 1H), 7.63(d, J=7.8Hz, 1H), 7.42(m, 1H), 7.25(dd, J=7.8, 7.2Hz, 1H), 7.18(dd, J=7.8, 7.2Hz, 1H), 7.02(d, J=7.8Hz, 1H), 6.80(s, 1H), 6.63(d, J=7.8Hz, 1H), 6.22(m, 1H), 5.20(s, 2H), 4.69(t, J=5.1Hz, 2H), 4.23(t, J=5.1Hz, 2H), 2.60(t, J=7.5Hz, 2H), 2.26(t, J=7.5Hz, 2H).

3(114)

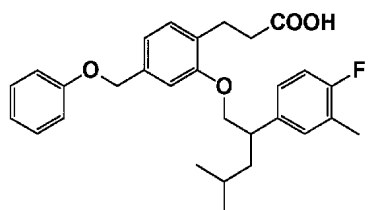
3-(2-(4- -2-(4- -3-))-4-(3-))



TLC: Rf 0.57(: =10:1).

3(115)

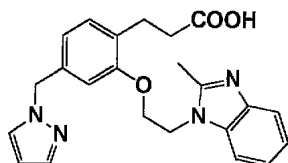
3-(2-(4- -2-(4- -3-))-4-)



TLC: Rf 0.57(: =10:1).

3(116)

3-(2-(2-(2- (1H))))-4-((1H)))

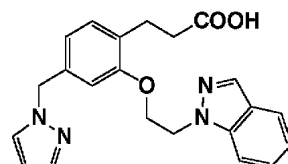


TLC: Rf 0.41(: =9:1);

NMR(300MHz, DMSO-d₆): 7.73(dd, J=2.2, 0.6Hz, 1H), 7.59(m, 1H), 7.50(m, 1H), 7.41(dd, J=2.2, 0.6Hz, 1H), 7.22-7.10(m, 2H), 7.01(d, J=7.7Hz, 1H), 6.83(d, J=1.6Hz, 1H), 6.63(dd, J=7.7, 1.6Hz, 1H), 6.22(t, J=2.2Hz, 1H), 5.20(s, 2H), 4.65(t, J=5.0Hz, 2H), 4.25(t, J=5.0Hz, 2H), 2.60(s, 3H), 2.57(t, J=7.7Hz, 2H), 2.24(t, J=7.7Hz, 2H).

3(117)

3-(2-(2-(1H) (1H)))-4-((1H)))

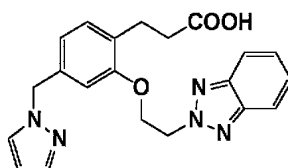


TLC: Rf 0.58(: =19:1);

NMR(300MHz, CDCl₃): 8.02(d, J=0.9Hz, 1H), 7.71(d, J=7.8Hz, 1H), 7.55-7.46(m, 2H), 7.41-7.31(m, 2H), 7.12(m, 1H), 7.04(d, J=7.5Hz, 1H), 6.70(d, J=7.5Hz, 1H), 6.60(s, 1H), 6.26(t, J=2.0Hz, 1H), 5.22(s, 2H), 4.78(t, J=5.2Hz, 2H), 4.35(t, J=5.2Hz, 2H), 2.67(t, J=7.7Hz, 2H), 2.28(t, J=7.7Hz, 2H).

3(118)

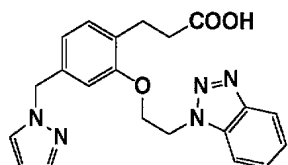
3-(2-(2-(2 H- (2-)))-4-((1H))))



TLC: Rf 0.42(: =10:1).

3(119)

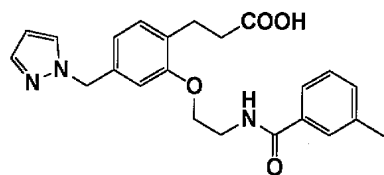
3-(2-(2-(1H) (1H)))-4-((1H)))



TLC: Rf 0.35(: =10:1).

3(120)

3-(2-(2-((3-)))-4-(-1-)))

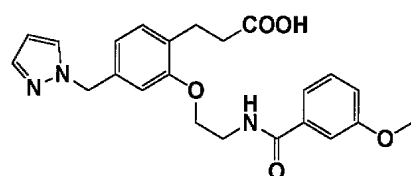


TLC: Rf 0.55(: =9:1);

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 8.60-8.56(m, 1H), 7.78(d, J=2.1Hz, 1H), 7.65-7.60(m, 2H), 7.43-7.42(m, 1H), 7.33-7.31(m, 2H), 7.07(d, J=7.8Hz, 1H), 6.88(s, 1H), 6.67(d, J=7.8Hz, 1H), 6.24-6.23(m, 1H), 5.24(s, 2H), 4.06(t, J=5.7Hz, 2H), 3.65-3.59(m, 2H), 2.74(t, J=7.5Hz, 2H), 2.43(t, J=7.5Hz, 2H), 2.33(s, 3H).

3(121)

3-(2-(2-((3-)))-4-(-1-)))

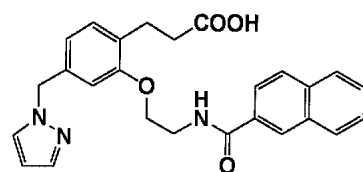


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 12.01(s, 1H), 8.65-8.61(m, 1H), 7.78(d, J=2.1Hz, 1H), 7.43-7.32(m, 4H), 7.08-7.05(m, 2H), 6.88(s, 1H), 6.67(d, J=7.5Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.06(t, J=5.7Hz, 2H), 3.78(s, 3H), 3.65-3.60(m, 2H), 2.74(t, J=7.5Hz, 2H), 2.42(t, J=7.5Hz, 2H).

3(122)

3-(2-(2-((-2-)))-4-(-1-)))

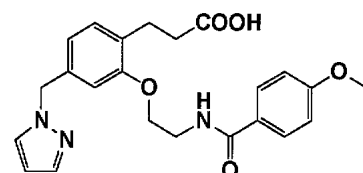


TLC: Rf 0.30(: =9:1);

NMR(300MHz, CDCl₃): 8.32(s, 1H), 7.92-7.82(m, 4H), 7.58-7.48(m, 3H), 7.36(d, J=2.1Hz, 1H), 7.11(d, J=7.8Hz, 2H), 6.73(d, J=7.8Hz, 1H), 6.65(s, 1H), 6.26(dd, J=2.1, 2.1Hz, 1H), 5.24(s, 2H), 4.10(t, J=5.1Hz, 2H), 3.90(dt, J=5.1, 5.1Hz, 2H), 2.96(t, J=7.2Hz, 2H), 2.63(t, J=7.2Hz, 2H).

3(123)

3-(2-(2-((4-)))-4-(-1-)))

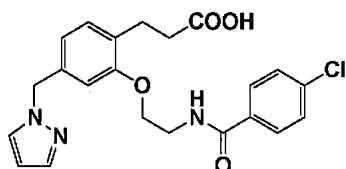


TLC: Rf 0.19(: =9:1);

NMR(300MHz, CDCl₃): 7.77(d, J=8.7Hz, 2H), 7.53(d, J=1.8Hz, 1H), 7.37(d, J=2.1Hz, 1H), 7.09(d, J=7.8Hz, 1H), 6.96(m, 1H), 6.88(d, J=9.0Hz, 1H), 6.72(d, J=7.8Hz, 1H), 6.63(s, 1H), 6.27(dd, J=2.1, 1.8Hz, 1H), 5.24(s, 2H), 4.02(t, J=4.8Hz, 2H), 3.81(s, 3H), 3.80(m, 2H), 2.93(t, J=7.5Hz, 2H), 2.60(t, J=7.5Hz, 2H).

3(124)

3-(2-(2-((4-)))-4-(-1-))

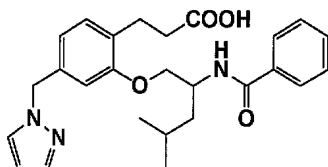


TLC: Rf 0.20(: =9:1);

NMR(300MHz, CDCl₃): 7.76(d, J=8.4Hz, 2H), 7.53(d, J=2.1Hz, 1H), 7.38-7.32(m, 3H), 7.16(m, 1H), 7.10(d, J=7.8Hz, 1H), 6.73(d, J=7.8Hz, 1H), 6.63(s, 1H), 6.27(dd, J=2.1, 2.1Hz, 1H), 5.23(s, 2H), 4.03(t, J=5.4Hz, 2H), 3.79(dt, J=5.4, 5.4Hz, 2H), 2.94(t, J=7.2Hz, 2H), 2.60(t, J=7.2Hz, 2H).

3(125)

3-(2-(4- -2-)-4-(-1-))

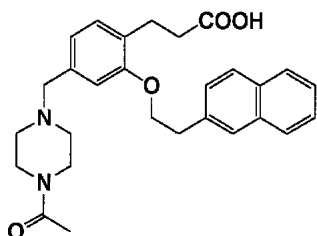


TLC: Rf 0.58(: =9:1);

NMR(300MHz, CDCl₃): 7.80-7.74(m, 2H), 7.53(d, J=2.1Hz, 1H), 7.51-7.35(m, 4H), 7.10(d, J=7.7Hz, 1H), 6.73(d, J=7.7Hz, 1H), 6.64(s, 1H), 6.48(d, J=8.7Hz, 1H), 6.27(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.65(m, 1H), 4.05(dd, J=9.3, 3.9Hz, 1H), 3.92(dd, J=9.3, 1.8Hz, 1H), 2.90(t, J=7.8Hz, 2H), 2.69-2.46(m, 2H), 1.81-1.48(m, 3H), 0.97(d, J=6.3Hz, 6H).

3(126)

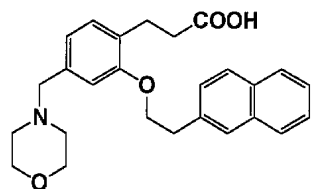
3-(2-(2-(-2-))-4-(4- -1-))



TLC: Rf 0.29(: =10:1).

3(127)

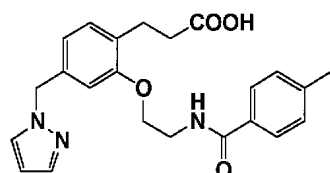
3-(2-(2-(-2-))-4-(-4-))



TLC: Rf 0.33(: =10:1).

3(128)

3-(2-(2-(4-))-4-(-1-))

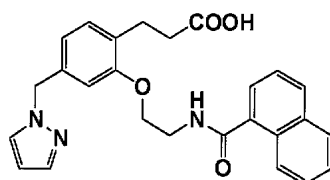


TLC: Rf 0.20(: =9:1);

NMR(300MHz, CDCl₃): 7.70(d, J=8.4Hz, 2H), 7.53(d, J=2.1Hz, 1H), 7.37(d, J=2.1Hz, 1H), 7.19(d, J=8.1Hz, 2H), 7.10(d, J=7.8Hz, 1H), 6.98(brs, 1H), 6.72(d, J=7.5Hz, 1H), 6.63(s, 1H), 6.27(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.03(t, J=4.8Hz, 2H), 3.81(dt, J=5.1, 4.8Hz, 2H), 2.93(t, J=7.5Hz, 2H), 2.60(t, J=7.5Hz, 2H), 2.36(s, 3H).

3(129)

3-(2-(2-(-1-))-4-(-1-))

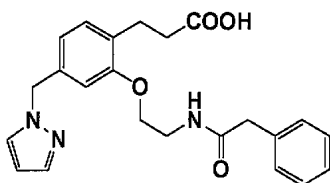


TLC: Rf 0.28(: =9:1);

NMR(300MHz, DMSO-d₆): 8.74(m, 1H), 8.20(m, 1H), 8.02-7.94(m, 2H), 7.80(d, J=2.4Hz, 1H), 7.60-7.50(m, 4H), 7.43(d, J=1.8Hz, 1H), 7.09(d, J=7.5Hz, 1H), 6.92(s, 1H), 6.68(d, J=7.5Hz, 1H), 6.24(dd, J=2.4, 1.8Hz, 1H), 5.26(s, 2H), 4.13(t, J=5.7Hz, 2H), 3.71(dt, J=5.1, 5.7Hz, 2H), 2.80(t, J=7.2Hz, 2H), 2.45(m, 2H).

3(130)

3-(2-(2-(2-))-4-(-1-))

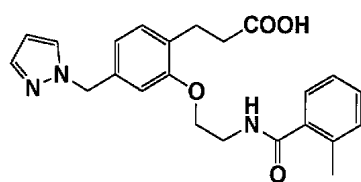


TLC: Rf 0.54(: =9:1);

NMR(300MHz, DMSO-d₆): 8.22(m, 1H), 7.78(d, J=2.4Hz, 1H), 7.43(d, J=2.1Hz, 1H), 7.30-7.15(m, 5H), 7.07(d, J=8.1Hz, 1H), 6.83(s, 1H), 6.67(d, J=8.1Hz, 1H), 6.24(dd, J=2.4, 1.8Hz, 1H), 5.24(s, 2H), 3.94(t, J=5.4Hz, 2H), 3.46-3.38(m, 4H), 2.74(t, J=7.5Hz, 2H), 2.45(t, J=7.5Hz, 2H).

3(131)

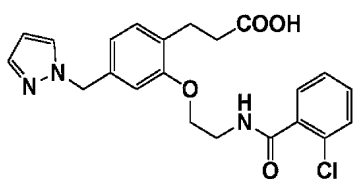
3-(2-(2-(2-))-4-(-1-)))



TLC: Rf 0.38(: =10:1).

3(132)

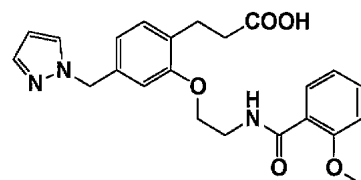
3-(2-(2-(2-))-4-(-1-)))



TLC: Rf 0.40(: =10:1).

3(133)

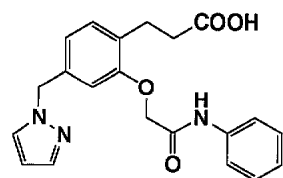
3-(2-(2-(2-))-4-(-1-)))



TLC: Rf 0.42(: =10:1).

3(134)

3-(2- -4-(-1-))

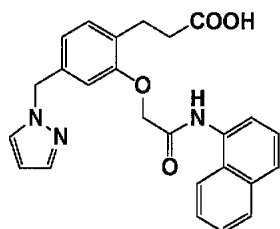


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 8.79(s, 1H), 7.66(d, J=7.8Hz, 2H), 7.52(d, J=2.1Hz, 1H), 7.38(d, J=2.1Hz, 1H), 7.36-7.30(m, 2H), 7.20-7.10(m, 2H), 6.78(d, J=7.8Hz, 1H), 6.61(s, 1H), 6.27(t, J=2.1Hz, 1H), 5.26(s, 2H), 4.45(s, 2H), 3.06(t, J=7.2Hz, 2H), 2.72(t, J=7.2Hz, 2H).

3(135)

3-(2-(-1-)-4-(-1-))

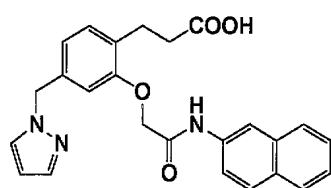


TLC: Rf 0.53(: =9:1);

NMR(300MHz, DMSO-d₆): 10.04(s, 1H), 8.04-7.92(m, 2H), 7.84-7.76(m, 2H), 7.65(d, J=7.2Hz, 1H), 7.58-7.50(m, 3H), 7.43(d, J=2.1Hz, 1H), 7.15(d, J=7.8Hz, 1H), 6.94(s, 1H), 6.75(d, J=7.8Hz, 1H), 6.22(t, J=2.1Hz, 1H), 5.28(s, 2H), 4.85(s, 2H), 2.90(t, J=7.8Hz, 2H), 2.55(t, J=7.8Hz, 2H).

3(136)

3-(2-(-2-)-4-(-1-))

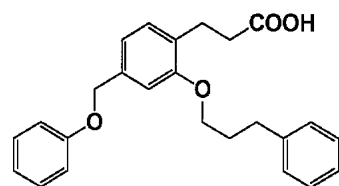


TLC: Rf 0.59(: =9:1);

NMR(300MHz, DMSO-d₆): 10.21(s, 1H), 8.29(s, 1H), 7.90-7.80(m, 3H), 7.74(d, J=1.8Hz, 1H), 7.61(dd, J=8.7, 1.8Hz, 1H), 7.50-7.38(m, 2H), 7.36(d, J=1.8Hz, 1H), 7.14(d, J=7.8Hz, 1H), 6.85(s, 1H), 6.72(d, J=7.8Hz, 1H), 6.16(dd, J=1.8, 1.8Hz, 1H), 5.25(s, 2H), 4.75(s, 2H), 2.86(t, J=7.2Hz, 2H), 2.55(t, J=7.2Hz, 2H).

3(137)

3-(2-(3-)-4-)

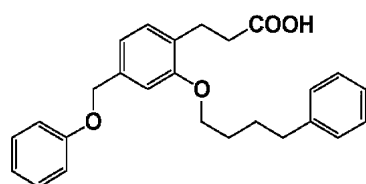


TLC: Rf 0.48(: =1:1);

NMR(300MHz, CDCl₃): 7.35-7.14(m, 8H), 7.00-6.80(m, 5H), 4.99(s, 2H), 4.00(t, J=6.3Hz, 2H), 3.00-2.95(m, 2H), 2.82(dd, J=7.8, 7.5Hz, 2H), 2.72-2.67(m, 2H), 2.17-2.08(m, 2H).

3(138)

3-(2-(4-)-4-)

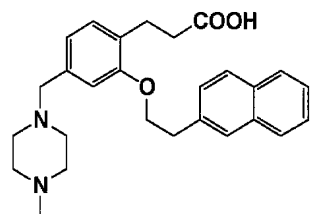


TLC: Rf 0.52(: =1:1);

NMR(300MHz, CDCl₃): 7.34-7.13(m, 8H), 7.00-6.90(m, 5H), 5.00(s, 2H), 4.01-3.98(m, 2H), 2.98-2.92(m, 2H), 2.70-2.64(m, 4H), 1.85-1.82(m, 4H).

3(139)

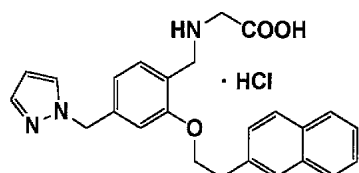
3-(2-(2-(-2-))-4-(-1-)))



TLC: Rf 0.25(: =5:1).

3(140)

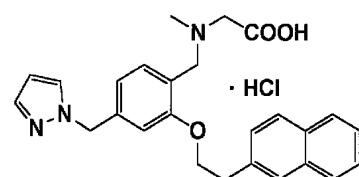
2-((2-(2-(-2-))-4-(-1-)))) .



TLC: Rf 0.25(: =1:1).

3(141)

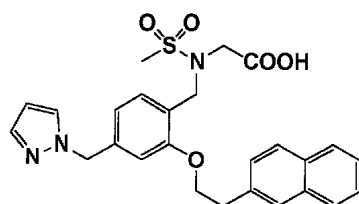
2-(N- -N-(2-(2-(-2-))-4-(-1-)))) .



TLC: Rf 0.30(: =1:1).

3(142)

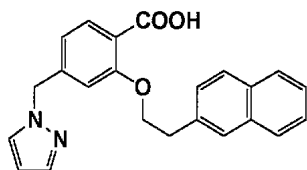
2-(N- -N-(2-(2-(-2-))-4-(-1-))))



TLC: Rf 0.45(: =3:1).

3(143)

2-(2-() -2-))-4-(-1-)

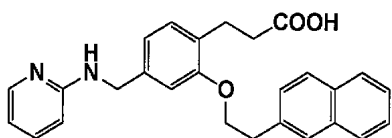


TLC: Rf 0.63(: =9:1);

NMR(300MHz, CDCl₃): 8.10(d, J=7.8Hz, 1H), 7.88-7.77(m, 3H), 7.71(s, 1H), 7.59(d, J=1.5Hz, 1H), 7.53-7.40(m, 3H), 7.35(dd, J=8.4, 1.5Hz, 1H), 6.91(d, J=8.4Hz, 1H), 6.79(s, 1H), 6.33(t, J=2.1Hz, 1H), 5.34(s, 2H), 4.45(t, J=6.6Hz, 2H), 3.32(t, J=6.6Hz, 2H).

3(144)

3-(2-(2-() -2-))-4-(-2-))

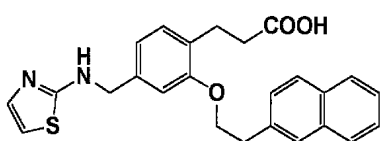


TLC: Rf 0.52(: =9:1);

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 7.92(dd, J=4.8, 1.5Hz, 1H), 7.89-7.79(m, 4H), 7.51-7.41(m, 3H), 7.33(m, 1H), 7.01(d, J=7.5Hz, 1H), 6.97-6.89(m, 2H), 6.78(m, 1H), 6.50-6.42(m, 2H), 4.38(d, J=6.0Hz, 2H), 4.22(t, J=6.6Hz, 2H), 3.19(t, J=6.6Hz, 2H), 2.70(t, J=7.5Hz, 2H), 2.35(t, J=7.5Hz, 2H).

3(145)

3-(2-(2-() -2-))-4-(-2-))

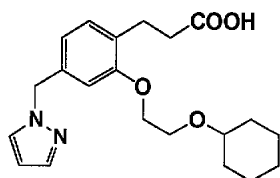


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 7.94(t, J=5.7Hz, 1H), 7.90-7.80(m, 4H), 7.53-7.41(m, 3H), 7.04(d, J=7.5Hz, 1H), 6.98(d, J=3.6Hz, 1H), 6.96(d, J=1.5Hz, 1H), 6.79(m, 1H), 6.58(d, J=3.6Hz, 1H), 4.35(d, J=5.7 Hz, 2H), 4.23(t, J=6.6Hz, 2H), 3.20(t, J=6.6Hz, 2H), 2.70(t, J=7.5Hz, 2H), 2.36(t, J=7.5Hz, 2H).

3(146)

3-(2-(2-))-4-(-1-))

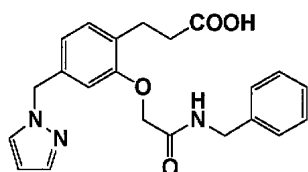


TLC: Rf 0.34(: =9:1);

NMR(300MHz, CDCl₃): 7.54(d, J=1.5Hz, 1H), 7.36(d, J=1.5Hz, 1H), 7.12(d, J=7.8Hz, 1H), 6.73(d, J=7.8Hz, 1H), 6.67(s, 1H), 6.23(dd, J=1.5, 1.5Hz, 1H), 5.26(s, 2H), 4.05(t, J=4.8Hz, 2H), 3.80(t, J=4.8Hz, 2H), 3.34(m, 1H), 2.93(t, J=7.5Hz, 2H), 2.65(t, J=7.5Hz, 2H), 1.94(m, 2H), 1.73(m, 2H), 1.52(m, 1H), 1.36-1.16(m, 5H).

3(147)

3-(2-()-4-(-1-))

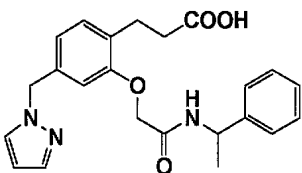


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 7.55(d, J=2.1Hz, 1H), 7.38(d, J=2.4Hz, 1H), 7.34-7.20(m, 6H), 7.13(d, J=7.8Hz, 1H), 6.78(d, J=7.8Hz, 1H), 6.59(s, 1H), 6.29(dd, J=2.4, 2.1Hz, 1H), 5.25(s, 2H), 4.52-4.47(m, 4H), 2.94(t, J=7.2Hz, 2H), 2.58(t, J=7.2Hz, 2H).

3(148)

3-(2-((1-))-4-(-1-))

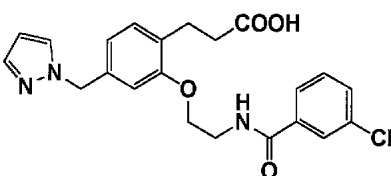


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.53(d, J=1.8Hz, 1H), 7.35(d, J=2.1Hz, 1H), 7.32-7.20(m, 5H), 7.14(d, J=7.5Hz, 1H), 7.09(d, J=8.1Hz, 1H), 6.77(d, J=7.5Hz, 1H), 6.55(s, 1H), 6.27(dd, J=2.1, 1.8Hz, 1H), 5.22(s, 2H), 5.20(m, 1H), 4.43(d, J=15.0Hz, 1H), 4.37(d, J=15.0Hz, 1H), 2.96(t, J=7.5Hz, 2H), 2.61(t, J=7.5Hz, 2H), 1.49(d, J=6.9Hz, 3H).

3(149)

3-(2-(2-(3-))-4-(-1-))

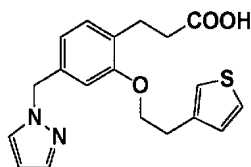


TLC: Rf 0.35();

NMR(300MHz, DMSO-d₆): 11.99(s, 1H), 8.78(t, J=5.1Hz, 1H), 7.87-7.78(m, 3H), 7.60-7.43(m, 3H), 7.06(d, J=7.5Hz, 1H), 6.88(s, 1H), 6.67(d, J=7.5Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.07(t, J=5.7Hz, 2H), 3.66-3.61(m, 2H), 2.73(t, J=7.5Hz, 2H), 2.41(t, J=7.5Hz, 2H).

3(150)

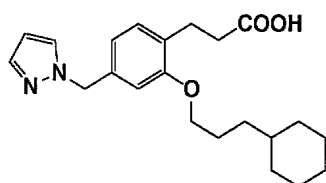
3-(2-(2-())-4-(-1-))



TLC: Rf 0.48(: =9:1).

3(155)

3-(2-(3-)-4-(-1-))

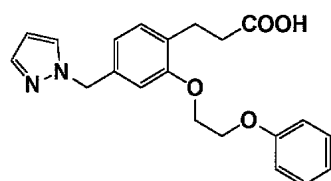


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 7.78(d, J=2.1Hz, 1H), 7.43(m, 1H), 7.06(d, J=7.8Hz, 1H), 6.81(s, 1H), 6.64(d, J=7.8Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.24(s, 2H), 3.88(t, J=6.3Hz, 2H), 2.72(t, J=7.5Hz, 2H), 2.42(t, J=7.5Hz, 2H), 1.70-1.62(m, 7H), 1.34-1.14(m, 6H), 0.92-0.84(m, 2H).

3(156)

3-(2-(2-)-4-(-1-))

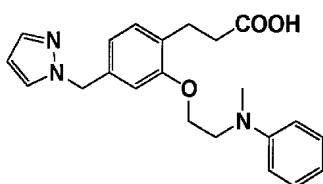


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 12.01(s, 1H), 7.79(d, J=2.1Hz, 1H), 7.44(s, 1H), 7.31-7.26(m, 2H), 7.08(d, J=7.5Hz, 1H), 6.98-6.93(m, 4H), 6.68(d, J=7.5Hz, 1H), 6.25-6.24(m, 1H), 5.26(s, 2H), 4.32-4.26(m, 4H), 2.72(t, J=7.5Hz, 2H), 2.45-2.43(m, 2H).

3(157)

3-(2-(2-(N- -N-))-4-(-1-))



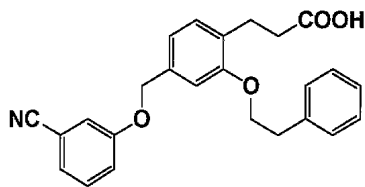
TLC: Rf 0.30(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 7.53(d, J=2.1Hz, 1H), 7.34(d, J=2.1Hz, 1H), 7.27-7.19(m, 2H), 7.11(d, J=7.8Hz, 1

H), 6.78-6.63(m, 5H), 6.26(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.09(t, J=5.4Hz, 2H), 3.76(t, J=5.4Hz, 2H), 3.03(s, 3H), 2.88(t, J=7.5Hz, 2H), 2.58(t, J=7.5Hz, 2H).

3(158)

3-(2-(2-)-4-(3-))

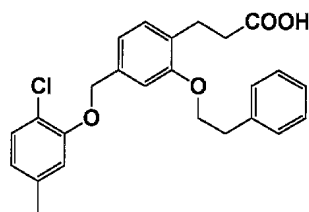


TLC: Rf 0.40(: =1:1);

NMR(300MHz, CDCl₃): 7.39-7.15(m, 10H), 6.90-6.87(m, 2H), 5.00(s, 2H), 4.20(t, J=6.6Hz, 2H), 3.12(t, J=6.6Hz, 2H), 2.93-2.88(m, 2H), 2.58-2.53(m, 2H).

3(159)

3-(2-(2-)-4-(2- -4-))

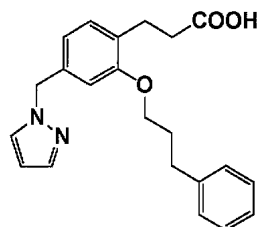


TLC: Rf 0.54(: =1:1);

NMR(300MHz, CDCl₃): 7.34-7.19(m, 6H), 7.13(d, J=7.8Hz, 1H), 7.00(brs, 1H), 6.92(brd, J=7.8Hz, 1H), 6.78(brs, 1H), 6.71(brd, J=7.8Hz, 1H), 5.06(s, 2H), 4.22(t, J=6.6Hz, 2H), 3.11(t, J=6.6Hz, 2H), 2.92-2.87(m, 2H), 2.57-2.52(m, 2H), 2.29(s, 3H).

3(160)

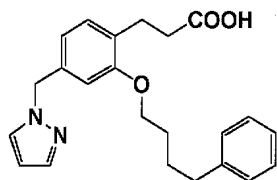
3-(2-(3-)-4-(-1-))



TLC: Rf 0.52(: =10:1).

3(161)

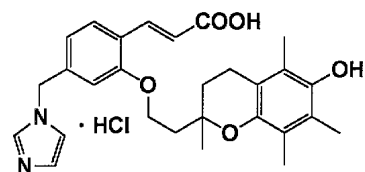
3-(2-(4-)-4-(-1-))



TLC: Rf 0.52(: =10:1).

3(162)

(2E)-3-(2-(2-(2,5,7,8-

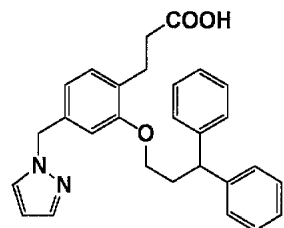


TLC: Rf 0.46(: =8:1);

NMR(300MHz, CD₃OD): 9.01(s, 1H), 7.94(d, J=16.2Hz, 1H), 7.63(d, J=8.1Hz, 1H), 7.60-7.55(m, 2H), 7.03(s, 1H), 6.94(d, J=8.1Hz, 1H), 6.51(d, J=16.2Hz, 1H), 5.45-5.30(m, 2H), 4.42-4.20(m, 2H), 2.70-2.60(m, 2H), 2.26-1.80(m, 4H), 2.11(s, 3H), 2.08(s, 3H), 2.04(s, 3H), 1.35(s, 3H).

3(163)

3-(2-(3,3-

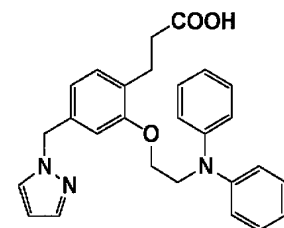


TLC: Rf 0.42(: =9:1);

NMR(300MHz, CDCl₃): 7.51(d, J=2.1Hz, 1H), 7.32(d, J=2.1Hz, 1H), 7.30-7.15(m, 10H), 7.11(d, J=7.8Hz, 1H), 6.68(d, J=7.8Hz, 1H), 6.54(s, 1H), 6.24(t, J=2.1Hz, 1H), 5.20(s, 2H), 4.24(t, J=7.8Hz, 1H), 3.87(t, J=6.3Hz, 2H), 2.94(t, J=7.8Hz, 2H), 2.67(t, J=7.8Hz, 2H), 2.52(dt, J=7.8, 6.3Hz, 2H).

3(164)

3-(2-(2-(N,N-



[]

TLC: Rf 0.44(: =9:1);

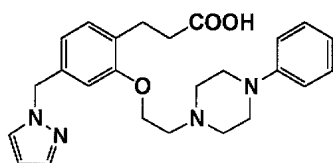
NMR(300MHz, CDCl₃): 7.52(d, J=2.1Hz, 1H), 7.33(d, J=2.1Hz, 1H), 7.30-7.20(m, 4H), 7.12-7.02(m, 5H), 6.98-6.92(m, 2H), 6.71(d, J=7.8Hz, 1H), 6.63(s, 1H), 6.25(t, J=2.1Hz, 1H), 5.21(s, 2H), 4.20-4.10(m, 4H), 2.85(t, J=7.8Hz, 2H), 2.54(t, J=7.8Hz, 2H).

[]

TLC: Rf 0.50(: =10:1).

3(165)

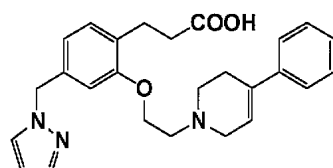
3-(2-(2-(4- -1-))-4-(-1-))



TLC: Rf 0.50(: =5:1).

3(166)

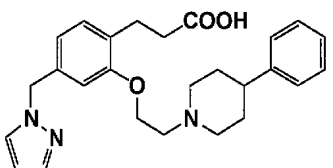
3-(2-(2-(4- -1,2,3,6- -1-))-4-(-1-))



TLC: Rf 0.51(: =5:1).

3(167)

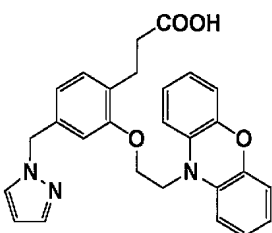
3-(2-(2-(4- -1-))-4-(-1-))



TLC: Rf 0.47(: =5:1).

3(168)

3-(2-(2-(-10-))-4-(-1-))



[]

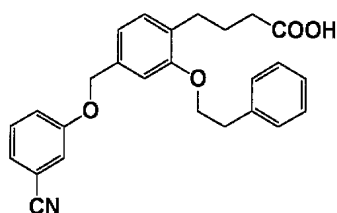
TLC: Rf 0.23(: =9:1);

NMR(300MHz, CDCl₃): 7.53(d, J=2.1Hz, 1H), 7.35(d, J=2.1Hz, 1H), 7.12(d, J=7.5Hz, 1H), 6.83-6.60(m, 10H), 6.26(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.17(t, J=5.7Hz, 2H), 3.98(t, J=5.7Hz, 2H), 2.86(t, J=7.8Hz, 2H), 2.55(t, J=7.8Hz, 2H).

[] TLC: Rf 0.47(: =10:1).

3(169)

4-(2-(2-)-4-(3-))

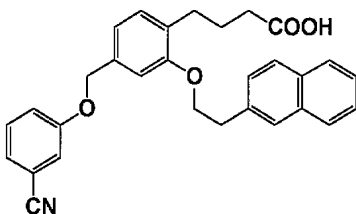


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.43-7.08(m, 10H), 6.94-6.84(m, 2H), 5.00(s, 2H), 4.18(t, J=6.8Hz, 2H), 3.11(t, J=6.8Hz, 2H), 2.63(t, J=7.4Hz, 2H), 2.31(t, J=7.4Hz, 2H), 1.94-1.77(m, 2H).

3(170)

4-(2-(2-(-2-))-4-(3-))

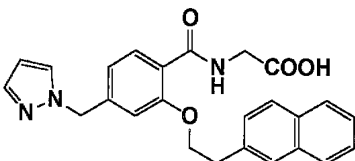


TLC: Rf 0.63(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.75(m, 3H), 7.73(s, 1H), 7.49-7.31(m, 4H), 7.28-7.14(m, 3H), 7.09(d, J=8.1Hz, 1H), 6.92-6.84(m, 2H), 4.99(s, 2H), 4.27(t, J=6.6Hz, 2H), 3.27(t, J=6.6Hz, 2H), 2.62(t, J=7.7Hz, 2H), 2.25(t, J=7.7Hz, 2H), 1.90-1.76(m, 2H).

3(171)

2-(2-(2-(-2-))-4-(-1-))

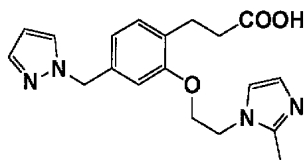


TLC: Rf 0.45(: =3:1);

NMR(300MHz, DMSO-d₆): 8.25(t, J=5.4Hz, 1H), 7.88-7.76(m, 6H), 7.53-7.45(m, 4H), 7.10(s, 1H), 6.79(dd, J=8.1, 1.5Hz, 1H), 6.27(t, J=2.1Hz, 1H), 5.35(s, 2H), 4.42(t, J=6.6Hz, 2H), 3.84(d, J=5.4Hz, 2H), 3.33-3.29(m, 2H).

3(172)

3-(2-(2-(2- -1-)))-4-(-1-))

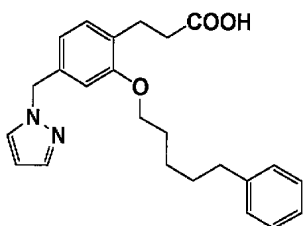


TLC: Rf 0.50();

NMR(300MHz, DMSO-d₆): 7.77(d, J=2.1Hz, 1H), 7.42(d, J=2.1Hz, 1H), 7.09-7.05(m, 2H), 6.83(s, 1H), 6.71-6.65(m, 2H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.28(t, J=4.8Hz, 2H), 4.14(t, J=4.8Hz, 2H), 2.66(t, J=7.5Hz, 2H), 2.30-2.26(m, 5H).

3(173)

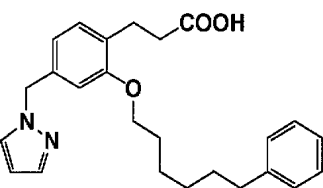
3-(2-(5-))-4-(-1-))



TLC: Rf 0.63(: =10:1).

3(174)

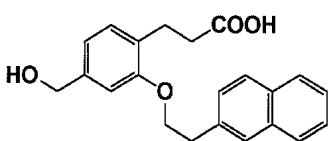
3-(2-(6-))-4-(-1-))



TLC: Rf 0.61(: =10:1).

3(175)

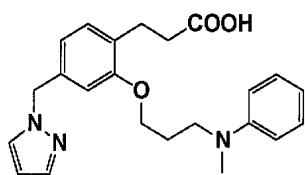
3-(2-(2-(-2-)))-4-



TLC: Rf 0.51(: =10:1).

3(176)

3-(2-(3-(N- -N-))-4-(-1-))

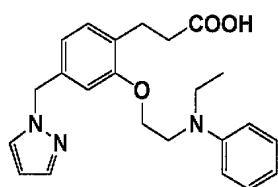


TLC: Rf 0.36(: =19:1);

NMR(300MHz, CDCl₃): 7.54(d, J=1.8Hz, 1H), 7.36(d, J=2.4Hz, 1H), 7.28-7.18(m, 2H), 7.14(d, J=7.5Hz, 1H), 6.77-6.62(m, 5H), 6.27(dd, J=2.4, 1.8Hz, 1H), 5.26(s, 2H), 3.96(t, J=5.4Hz, 2H), 3.53(t, J=7.2Hz, 2H), 2.98(t, J=7.8Hz, 2H), 2.93(s, 3H), 2.67(t, J=7.2Hz, 2H), 2.05(m, 2H).

3(177)

3-(2-(2-(N- -N-))-4-(-1-))



[]

TLC: Rf 0.38(: =19:1);

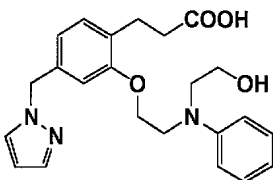
NMR(300MHz, CDCl₃): 7.53(d, J=2.1Hz, 1H), 7.35(d, J=2.4Hz, 1H), 7.25-7.18(m, 2H), 7.12(d, J=7.5Hz, 1H), 6.77-6.64(m, 5H), 6.26(dd, J=2.4, 2.1Hz, 1H), 5.23(s, 2H), 4.07(t, J=6.0Hz, 2H), 3.71(t, J=6.0Hz, 2H), 3.46(q, J=6.9Hz, 2H), 2.91(t, J=7.2Hz, 2H), 2.59(t, J=7.2Hz, 2H), 1.17(t, J=6.9Hz, 2H).

[]

TLC: Rf 0.64(: =10:1).

3(178)

3-(2-(2-(N-(2-)-N-))-4-(-1-))

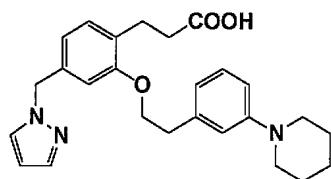


TLC: Rf 0.41(: =9:1);

NMR(300MHz, CDCl₃): 7.53(d, J=1.8Hz, 1H), 7.35(d, J=2.4Hz, 1H), 7.27-7.21(m, 2H), 7.11(t, J=7.8Hz, 1H), 6.82-6.69(m, 5H), 6.26(dd, J=2.4, 1.8Hz, 1H), 5.22(s, 2H), 4.13(t, J=4.8Hz, 2H), 3.86-3.78(m, 4H), 3.61(t, J=6.0Hz, 2H), 2.92(t, J=7.5Hz, 2H), 2.57(t, J=7.5Hz, 2H).

3(179)

3-(2-(2-(3-(
-1-))))-4-(
-1-))

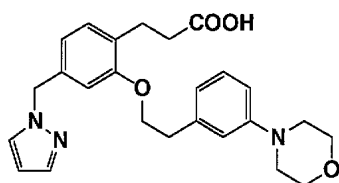


TLC: Rf 0.40(: =1:2);

NMR(300MHz, CDCl₃): 7.53(d, J=2.1Hz, 1H), 7.36(d, J=2.1Hz, 1H), 7.20(t, J=7.8Hz, 1H), 7.11(d, J=7.8Hz, 1H), 6.92(s, 1H), 6.85-6.70(m, 3H), 6.66(s, 1H), 6.26(t, J=2.1Hz, 1H), 5.25(s, 2H), 4.13(t, J=6.6Hz, 2H), 3.15-3.11(m, 4H), 3.02(t, J=6.6Hz, 2H), 2.89(t, J=7.5Hz, 2H), 2.52(t, J=7.5Hz, 2H), 1.76-1.69(m, 4H), 1.60-1.54(m, 2H).

3(180)

3-(2-(2-(3-(
-4-))))-4-(
-1-))

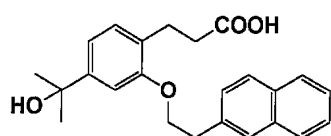


TLC: Rf 0.25(: =1:2);

NMR(300MHz, CDCl₃): 7.53(d, J=1.8Hz, 1H), 7.36(d, J=1.8Hz, 1H), 7.22(t, J=7.8Hz, 1H), 7.10(d, J=7.8Hz, 1H), 6.84-6.66(m, 5H), 6.27(t, J=1.8Hz, 1H), 5.25(s, 2H), 4.12(t, J=6.6Hz, 2H), 3.88-3.85(m, 4H), 3.17-3.14(m, 4H), 3.03(t, J=6.6Hz, 2H), 2.88(t, J=7.8Hz, 2H), 2.53(t, J=7.8Hz, 2H).

3(181)

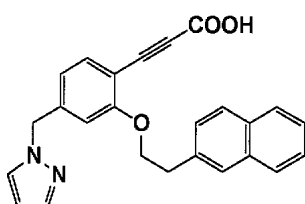
3-(2-(2-(
-2-)))-4-(1-
-1-))



TLC: Rf 0.56(: =10:1).

3(182)

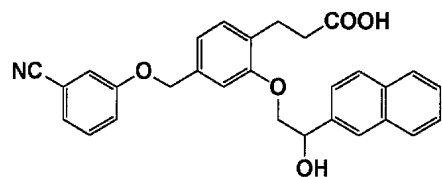
3-(2-(2-(
-2-)))-4-(
-1-))



TLC: Rf 0.53(: : =18:1:1).

3(183)

3-(2-(2-(2-(1,2,3,4-

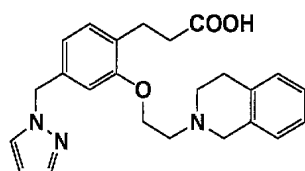


TLC: Rf 0.39(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 7.92(s, 1H), 7.88-7.80(m, 3H), 7.57-7.44(m, 3H), 7.34(m, 1H), 7.25-7.12(m, 4H), 6.93(d, J=7.8Hz, 1H), 6.86(s, 1H), 5.32(dd, J=7.8, 3.6Hz, 1H), 4.97(s, 2H), 4.23(dd, J=9.3, 3.6Hz, 1H), 4.14(d, J=9.3, 7.8Hz, 1H), 3.10-2.90(m, 2H), 2.63(m, 2H).

3(184)

3-(2-(2-(1,2,3,4-

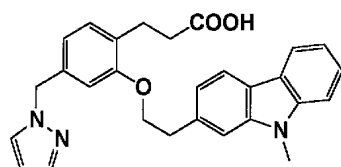


TLC: Rf 0.30(: =10:1);

NMR(300MHz, CDCl₃): 7.55(d, J=1.8Hz, 1H), 7.38(d, J=2.4Hz, 1H), 7.18-7.03(m, 5H), 6.75(d, J=7.5Hz, 1H), 6.66(s, 1H), 6.28(m, 1H), 5.27(s, 2H), 4.09(t, J=4.5Hz, 2H), 3.88(s, 2H), 3.11-2.94(m, 8H), 2.32(t, J=8.4Hz, 2H).

3(185)

3-(2-(2-(9-

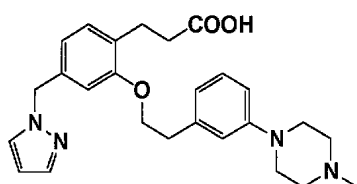


TLC: Rf 0.36(: =9:1);

NMR(300MHz, CDCl₃): 8.09-7.99(m, 3H), 7.53(d, J=1.8Hz, 1H), 7.49-7.05(m, 6H), 6.74-6.67(m, 2H), 6.25(dd, J=2.1, 1.8Hz, 1H), 5.24(s, 2H), 4.23(t, J=6.6Hz, 2H), 3.83(s, 3H), 3.28(t, J=6.6Hz, 2H), 2.89(t, J=7.8Hz, 2H), 2.52(t, J=7.8Hz, 2H).

3(186)

3-(2-(2-(3-(4-

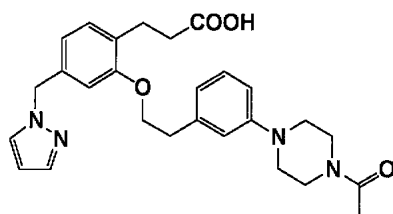


TLC: Rf 0.20(: =9:1);

NMR(300MHz, DMSO-d₆): 7.77(d, J=2.1Hz, 1H), 7.42(s, 1H), 7.14-7.04(m, 2H), 6.87-6.63(m, 5H), 6.23(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.08(t, J=6.6Hz, 2H), 3.12-3.08(m, 4H), 2.94(t, J=6.6Hz, 2H), 2.70(t, J=7.5Hz, 2H), 2.44-2.41(m, 4H), 2.35(t, J=7.5Hz, 2H), 2.20(s, 3H).

3(187)

3-(2-(2-(3-(4- -1-)))-4-(-1-)))

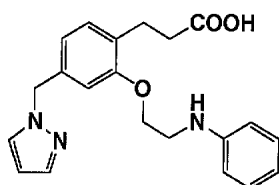


TLC: Rf 0.40(: =9:1);

NMR(300MHz, CDCl₃): 7.53(d, J=2.1Hz, 1H), 7.35(d, J=2.1Hz, 1H), 7.21(t, J=7.8Hz, 1H), 7.08(d, J=7.8Hz, 1H), 6.87-6.65(m, 5H), 6.26(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.11(t, J=6.0Hz, 2H), 3.79-3.75(m, 2H), 3.64-3.61(m, 2H), 3.19-3.11(m, 4H), 3.03(t, J=6.0Hz, 2H), 2.86(t, J=7.8Hz, 2H), 2.51(t, J=7.8Hz, 2H), 2.15(s, 3H).

3(188)

3-(2-(2-)-4-(-1-))

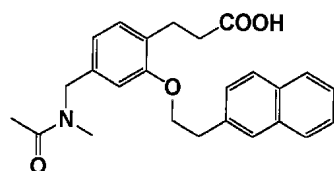


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.54(d, J=1.5Hz, 1H), 7.36(d, J=2.1Hz, 1H), 7.22-7.09(m, 3H), 6.77-6.64(m, 6H), 6.27(t, J=2.1Hz, 1H), 5.25(s, 2H), 4.10(t, J=8.1Hz, 2H), 3.53(t, J=8.1Hz, 2H), 2.94(t, J=7.5Hz, 2H), 2.61(t, J=7.5Hz, 2H).

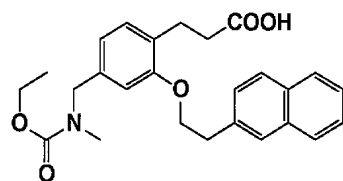
3(189)

3-(2-(2-(-2-))-4-(N- -N-))



TLC: Rf 0.45(: =9:1);

NMR(300MHz, CDCl₃): 7.82-7.78(m, 3H), 7.75(s, 1H), 7.45-7.41(m, 3H), 7.11(d, J=7.5Hz, 0.4H), 7.06(d, J=7.5Hz, 0.6H), 6.75(brs, 0.6H), 6.71(brd, J=7.5Hz, 0.6H), 6.64(brd, J=7.5Hz, 0.4H), 6.59(brs, 0.4H), 4.50(s, 1.2H), 4.44(s, 0.8H), 4.27-4.23(m, 2H), 3.29-3.23(m, 2H), 2.91(s, 1.2H), 2.90-2.85(m, 2H), 2.88(s, 1.8H), 2.55-2.49(m, 2H), 2.13(s, 3H).

3(190)3-(2-(2-(
-2-))-4-(N-
-N-))

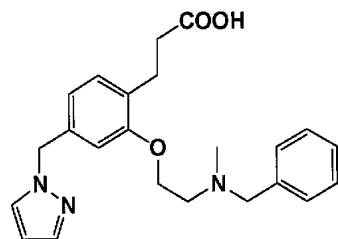
[]

TLC: Rf 0.14(: =2:1);

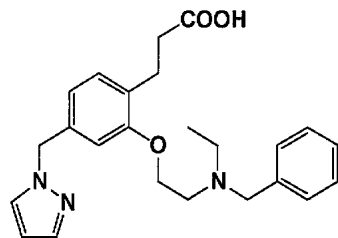
NMR(300MHz, CDCl₃): 7.81-7.78(m, 3H), 7.74(brs, 1H), 7.45-7.41(m, 3H), 7.07(d, J=7.5Hz, 1H), 6.78-6.66(m, 2H), 4.39(brs, 2H), 4.25(t, J=6.6Hz, 2H), 4.17(q, J=6.9Hz, 2H), 3.27(t, J=6.6Hz, 2H), 2.91-2.70(m, 5H), 2.55-2.50(m, 2H), 1.28-1.23(m, 3H).

[]

TLC: Rf 0.50(n- : =1:2).

3(191)3-(2-(2-(N-
-N-))-4-(
-1-))

TLC: Rf 0.40(: =10:1).

3(192)3-(2-(2-(N-
-N-))-4-(
-1-))

TLC: Rf 0.40(: =10:1).

3(193)3-(2-(2-(N-
-N-))-4-(
-1-))

5-4.25(m, 2H), 2.45(t, J=7.5Hz, 2H), 2.12(t, J=7.5Hz, 2H).

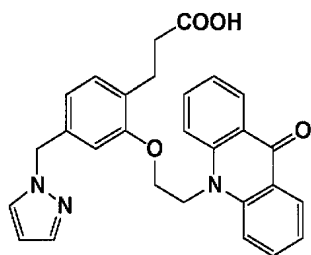
[]

TLC: Rf 0.51(: =10:1);

NMR(300MHz, DMSO-d₆): 8.13(d, J=7.8Hz, 2H), 7.76-7.68(m, 3H), 7.45-7.40(m, 2H), 7.38(s, 1H), 7.19-7.16(m, 2H), 7.00(d, J=7.8Hz, 1H), 6.74(s, 1H), 6.58(d, J=8.4Hz, 1H), 6.20(t, J=2.1Hz, 1H), 5.16(s, 2H), 4.82-4.76(m, 2H), 4.26-4.16(m, 2H), 2.45-2.40(m, 2H), 2.00-1.92(m, 2H).

3(196)

3-(2-(2-(9,10- -9- -10-))-4-(-1-))

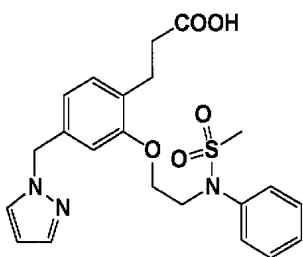


TLC: Rf 0.45(: =10:1);

NMR(300MHz, DMSO-d₆): 8.37(dd, J=8.1Hz, 2H), 8.05(d, J=8.7Hz, 2H), 7.90-7.80(m, 2H), 7.74(d, J=1.8 Hz, 1H), 7.41(d, J=1.8Hz, 1H), 7.36(t, J=7.2Hz, 2H), 6.99(d, J=7.5Hz, 1H), 6.88(d, J=1.2Hz, 1H), 6.63(dd, J=7.5, 1.2Hz, 1H), 6.23(t, J=1.8Hz, 1H), 5.20(s, 2H), 5.08(t, J=5.1Hz, 2H), 4.43(t, J=5.1Hz, 2H), 2.47(t, J=7.8Hz, 2 H), 2.12(t, J=7.8Hz, 2H).

3(197)

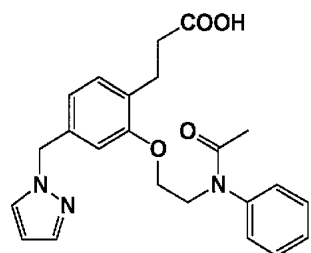
3-(2-(2-(N- -N-))-4-(-1-))



TLC: Rf 0.49(: =10:1).

3(198)

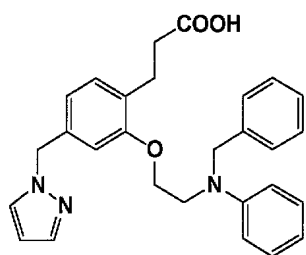
3-(2-(2-(N- -N-))-4-(-1-))



TLC: Rf 0.50(: =10:1).

3(199)

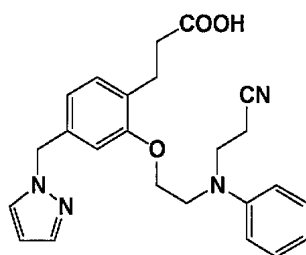
3-(2-(2-(N- -N-))-4-(-1-))



TLC: Rf 0.23(n- : =1:1).

3(200)

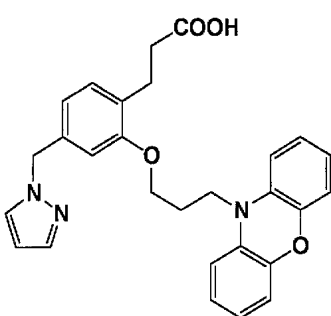
3-(2-(2-(N-(2-)-N-))-4-(-1-))



TLC: Rf 0.50(: =10:1).

3(201)

3-(2-(3-(-10-))-4-(-1-))

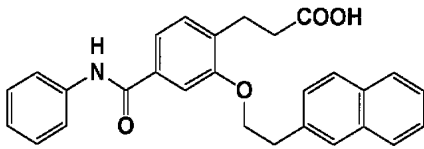


TLC: Rf 0.50(: =19:1);

NMR(300MHz, CDCl₃): 7.55(dd, J=2.1, 0.6Hz, 1H), 7.36(dd, J=2.1, 0.6Hz, 1H), 7.15(d, J=7.5Hz, 1H), 6.80-6.71(m, 3H), 6.68-6.59(m, 5H), 6.56-6.50(m, 2H), 6.27(t, J=2.1Hz, 1H), 5.26(s, 2H), 4.04(t, J=5.6Hz, 2H), 3.78-3.68(m, 2H), 3.01(t, J=7.8Hz, 2H), 2.68(t, J=7.8Hz, 2H), 2.20-2.08(m, 2H).

3(202)

3-(2-(2-(-2-))-4-(N-))

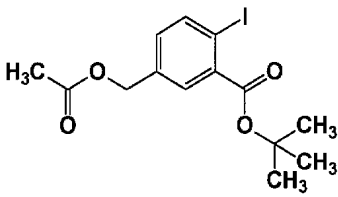


TLC: Rf 0.46(n- : =1:2);

NMR(300MHz, DMSO-d₆): 10.11(s, 1H), 7.91-7.82(m, 4H), 7.76-7.69(m, 2H), 7.57-7.41(m, 5H), 7.38-7.29(m, 2H), 7.26(d, J=7.8Hz, 1H), 7.08(m, 1H), 4.38(t, J=6.3Hz, 2H), 3.26(t, J=6.3Hz, 2H), 2.80(t, J=7.6Hz, 2H), 2.42(t, J=7.6Hz, 2H).

_____ 5

4- -2-(t-)



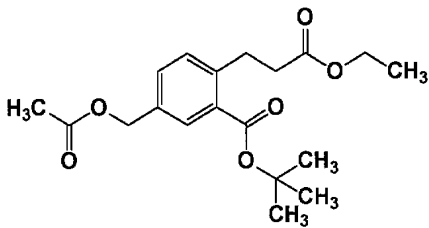
2-t- (645 mg), 4- (76 mg) 가 (1.0 g) 16 가 (10.0 Ml) 50 N- ()

N,N- (3.0 Ml) 가 (300 mg) 가 , 50 1 (n- : =8: 1) (285 mg)

TLC: Rf 0.23(n- : =10:1).

_____ 6

3-[4- -2-(t-)]

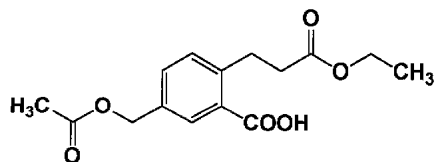


4 3-[4- -2-(t-)] (13 Ml) (2.0 g) 가 () 가 , 5 (4.5 g) 1 (50 Ml) 6 (3.4 g) 가 , 가 (3.8 g)

TLC: Rf 0.19(n- : =5:1).

_____ 7

3-(4- -2-)

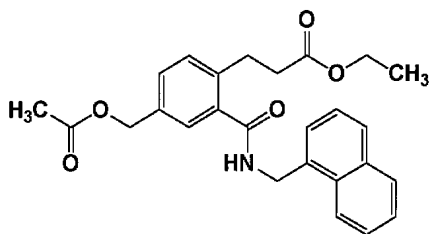


6 (3.8 g) (4.0 Ml) (2.0 Ml)
 (5.0 Ml) 가
 n- : =5:4 : =10:1

TLC: Rf 0.63(: =9:1).

8

3-[2-((-1-))-4-]

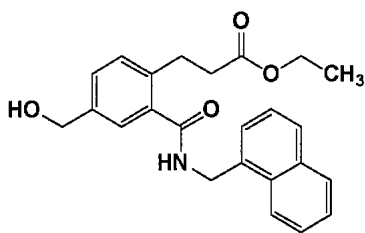


7 (3.2 g) (20 Ml) (1.0 Ml) N,N-
 가 () 가 1
 (10 Ml) , 1- (2.1 Ml) 가 (30 Ml)- (1.8 Ml) 0
 가 , 1 . 2N (7.0 Ml) 가 , (4.5 g) .

TLC: Rf 0.25(n- : =2:1).

4

3-[2-((-1-))-4-]



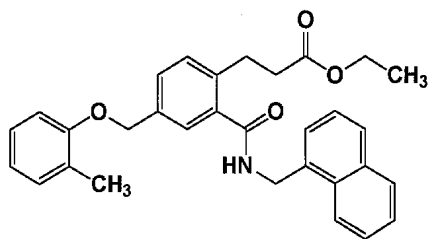
8 (10.9 mmol) (40 Ml) 0 (740 mg) 가
 20 . 가 , .
 (3.2 g) . (n- : =1:1)

TLC: Rf 0.20(n- : =1:1);

NMR(300MHz, CDCl₃): 8.14(d, J=8.7Hz, 1H), 7.92-7.79(m, 2H), 7.62-7.40(m, 3H), 7.36-7.10(m, 4H), 6.61(t, J=5.4Hz, 1H), 5.08(d, J=5.4Hz, 2H), 4.59(s, 2H), 4.03(q, J=7.2Hz, 2H), 3.06(t, J=7.4Hz, 2H), 2.67(t, J=7.4Hz, 2H), 1.19(t, J=7.2Hz, 3H).

_____ 5

3-[2-((-1-))-4-(2-)]



4 (300 mg) 2- (0.12 Mℓ) (4 Mℓ)
 (300 mg) (0.5 Mℓ, 40%) 가
 (330 mg) (n- : =5:1)

TLC: Rf 0.25(n- : =3:1);

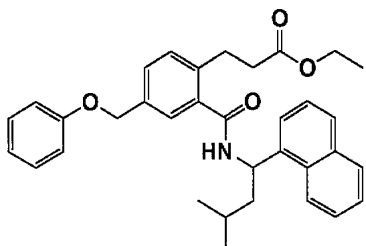
NMR(300MHz, CDCl₃): 8.15(d, J=8.1Hz, 1H), 7.93-7.80(m, 2H), 7.62-7.36(m, 7H), 7.16-7.06(m, 2H), 6.89-6.76(m, 2H), 6.52(t, J=5.4Hz, 1H), 5.10(d, J=5.4Hz, 2H), 4.99(s, 2H), 4.05(q, J=7.2Hz, 2H), 3.09(t, J=7.4Hz, 2H), 2.69(t, J=7.4Hz, 2H), 2.17(s, 3H), 1.19(t, J=7.2Hz, 3H).

_____ 5(1) 5(83)

5

_____ 5(1)

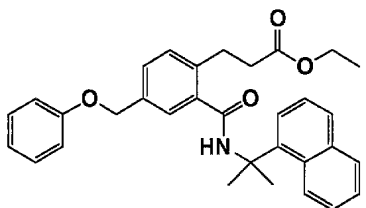
3-(2-((3- -1-(-1-)))-4-)



TLC: Rf 0.66(n- : =1:1).

_____ 5(2)

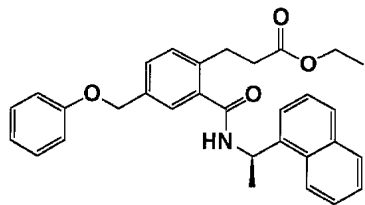
3-(2-((1- -1-(-1-)))-4-)



TLC: Rf 0.14(n- : =1:1).

_____ 5(3)

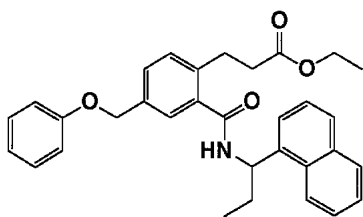
3-(2-(((1R)-1-())))-4-



TLC: Rf 0.58(n- : =1:1).

5(4)

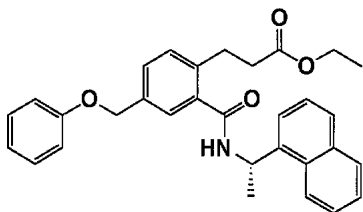
3-(2-((1-())))-4-



TLC: Rf 0.56(n- : =1:1).

5(5)

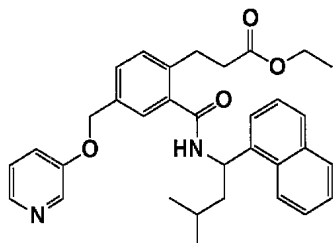
3-(2-(((1S)-1-())))-4-



TLC: Rf 0.58(n- : =1:1).

5(6)

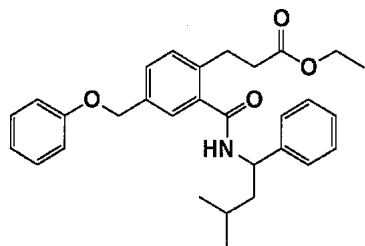
3-(2-((3- -1-())))-4-(-3-))



TLC: Rf 0.31(n- : =1:1).

5(7)

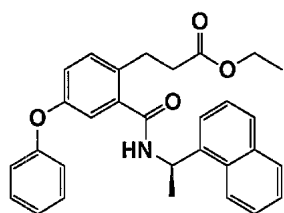
3-(2-((3- -1-)))-4-



TLC: Rf 0.65(n- : =1:1).

5(8)

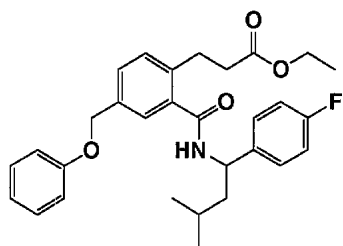
3-(2-(((1R)-1-(-1-))))-4-)



TLC: Rf 0.78(n- : =1:1).

5(9)

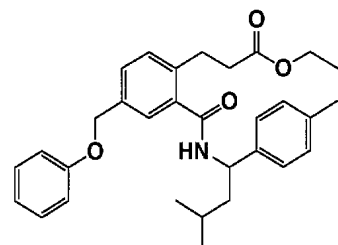
3-(2-((3- -1-(4-))))-4-)



TLC: Rf 0.53(n- : =3:1).

5(10)

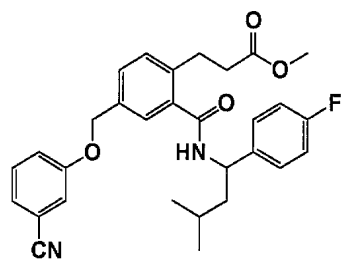
3-(2-((3- -1-(4-))))-4-)



TLC: Rf 0.52(n- : =3:1).

5(11)

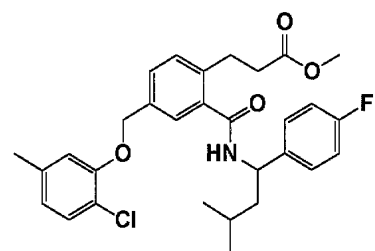
3-(2-((3- -1-(4-))))-4-(3-))



TLC: Rf 0.74(: =10:1).

5(12)

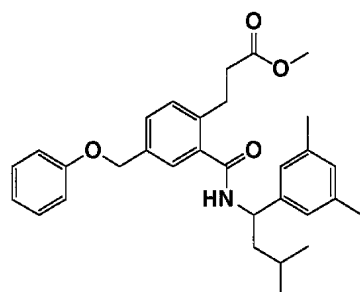
3-(2-((3- -1-(4-)))-4-(2- -5-)))



TLC: Rf 0.74(: =10:1).

5(13)

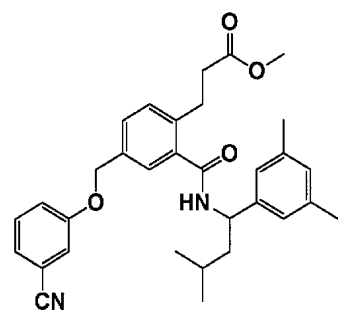
3-(2-((3- -1-(3,5-)))-4-))



TLC: Rf 0.58(n- : =2:1).

5(14)

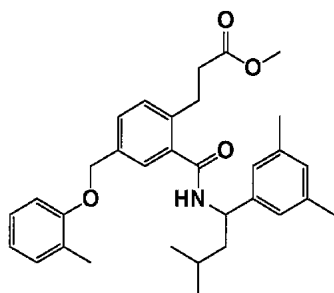
3-(2-((3- -1-(3,5-)))-4-(3-)))



TLC: Rf 0.78(n- : =1:1).

5(15)

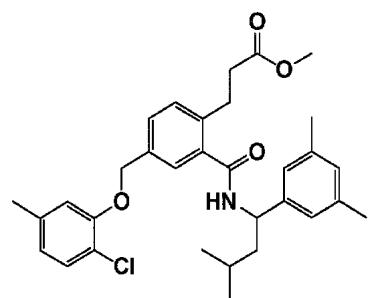
3-(2-((3- -1-(3,5-)))-4-(2-))



TLC: Rf 0.67(n- : =1:1).

5(16)

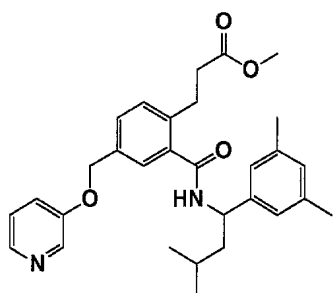
3-(2-((3- -1-(3,5-)))-4-(2- -5-))



TLC: Rf 0.83(n- : =1:1).

5(17)

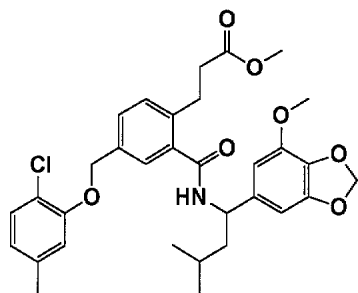
3-(2-((3- -1-(3,5-)))-4-(-3-))



TLC: Rf 0.21(n- : =1:1).

5(18)

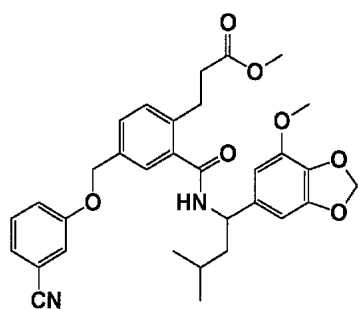
3-(2-((3- -1-(4- -1,3- -6-)))-4-(2- -5-))



TLC: Rf 0.70(n- : =1:2).

5(19)

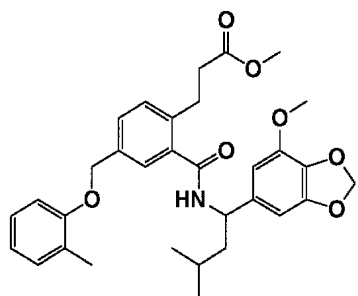
3-(2-((3- -1-(4- -1,3- -6-)))-4-(3-))



TLC: Rf 0.60(n- : =1:2).

5(20)

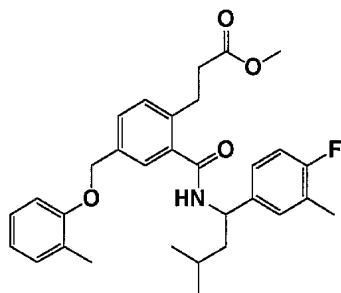
3-(2-((3- -1-(4- -1,3- -6-)))-4-(2-))



TLC: Rf 0.70(n- : =1:2).

5(21)

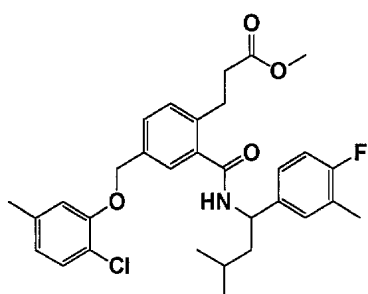
3-(2-((3- -1-(4- -3-)))-4-(2-))



TLC: Rf 0.56(n- : =2:1).

5(22)

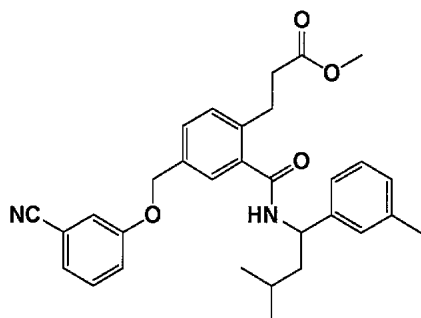
3-(2-((3- -1-(4- -3-)))-4-(2- -5-))



TLC: Rf 0.48(n- : =2:1).

5(23)

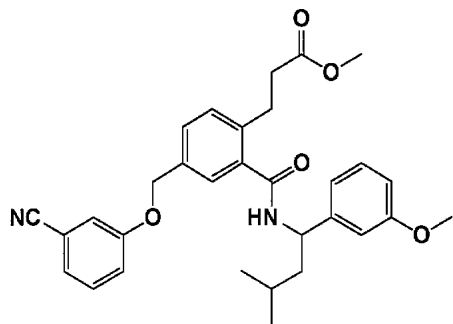
3-(2-((3- -1-(3-)))-4-(3-))



TLC: Rf 0.70(n- : =1:1).

5(24)

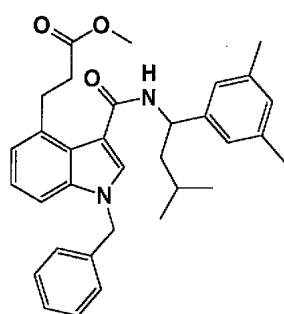
3-(2-((3- -1-(3-)))-4-(3-))



TLC: Rf 0.61(n- : =1:1).

5(25)

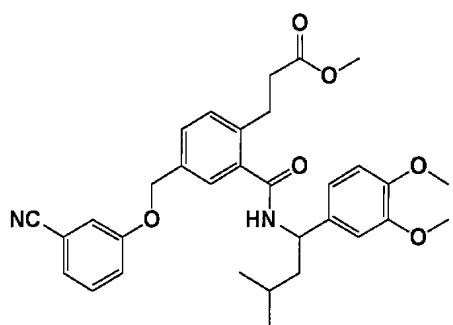
3-(1- -3-(3- -1-(3,5-)) -4-)



TLC: Rf 0.66(n- : =1:1).

5(26)

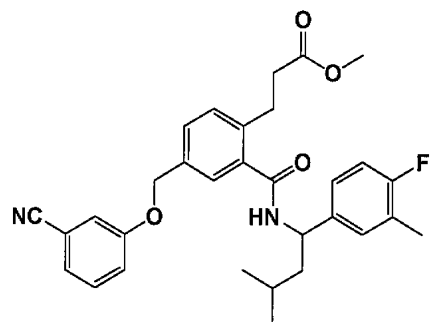
3-(2-((3- -1-(3,4-))) -4-(3-))



TLC: Rf 0.45(n- : =1:1).

5(27)

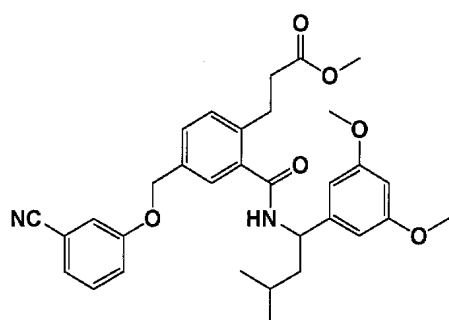
3-(2-((3- -1-(3- -4-))) -4-(3-))



TLC: Rf 0.43(n- : =2:1).

5(28)

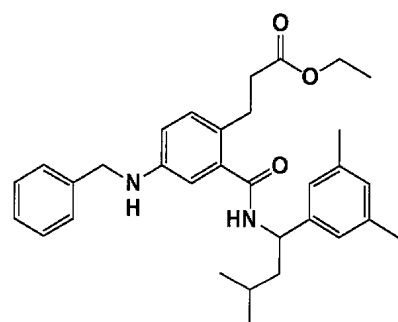
3-(2-((3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.42(n- : =1:1).

5(29)

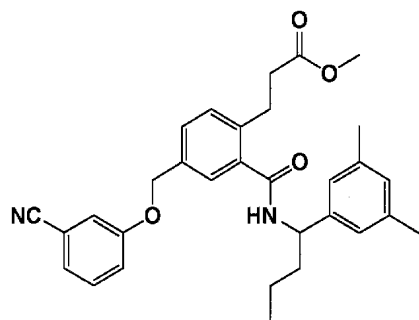
3-(2-((3- -1-(3,5-))))-4-



TLC: Rf 0.44(n- : =3:1).

5(30)

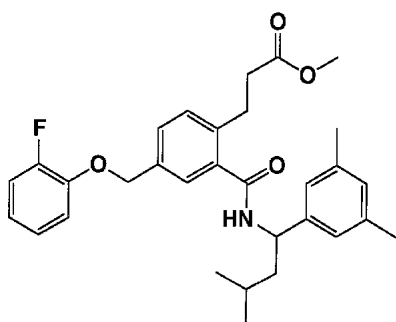
3-(2-(1-(3,5-)))-4-(3-))



TLC: Rf 0.79(n- : =1:1).

5(31)

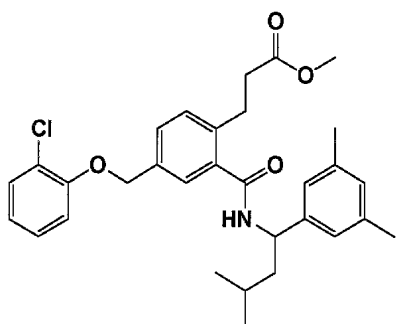
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.56(n- : =2:1).

5(32)

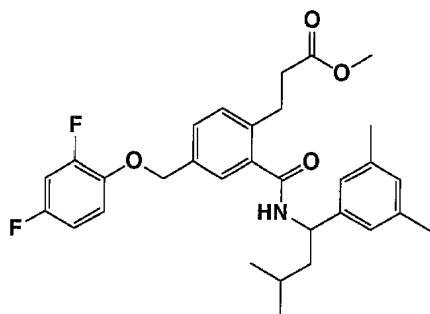
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.55(n- : =2:1).

5(33)

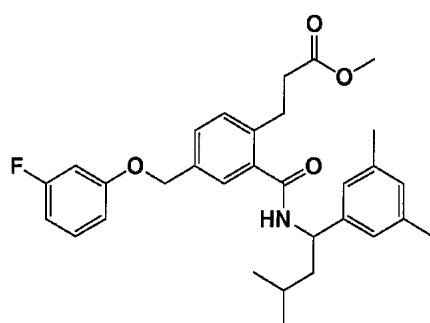
3-(2-((3- -1-(3,5-))))-4-(2,4-))



TLC: Rf 0.55(n- : =2:1).

5(34)

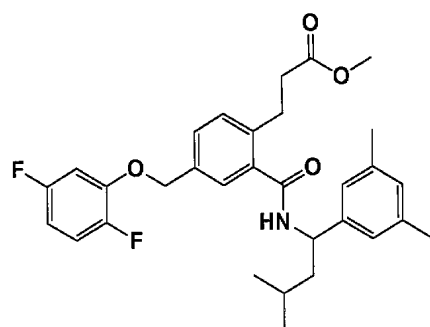
3-(2-((3- -1-(3,5-))) -4-(3-))



TLC: Rf 0.56(n- : =2:1).

5(35)

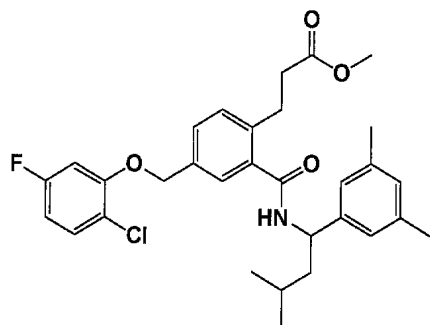
3-(2-((3- -1-(3,5-))) -4-(2,5-))



TLC: Rf 0.58(n- : =2:1).

5(36)

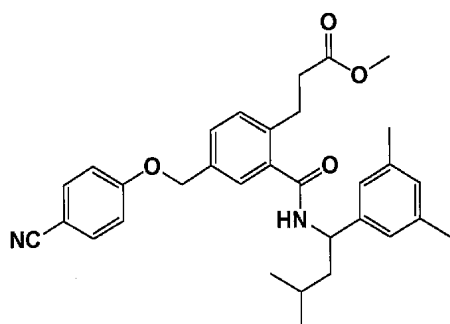
3-(2-((3- -1-(3,5-))) -4-(2- -5-))



TLC: Rf 0.51(n- : =2:1).

5(37)

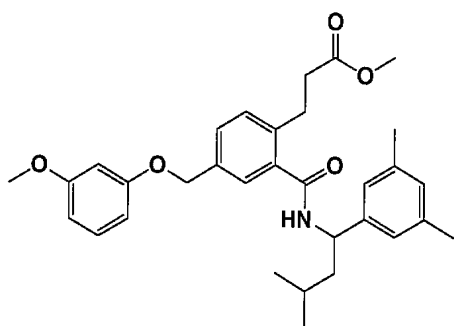
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.25(n- : =1:1).

5(38)

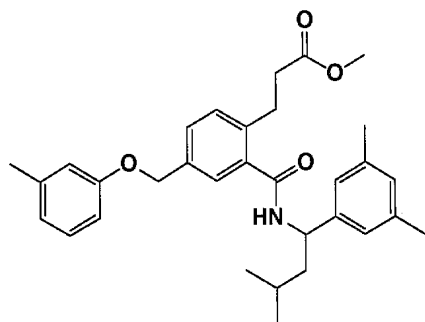
3-(2-((3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.91(n- : =1:1).

5(39)

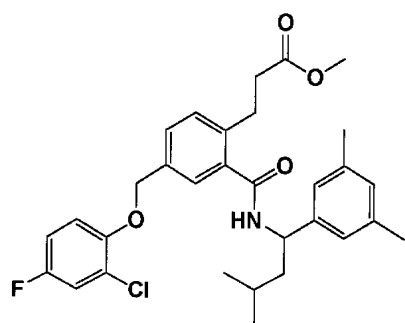
3-(2-((3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.87(n- : =1:1).

5(40)

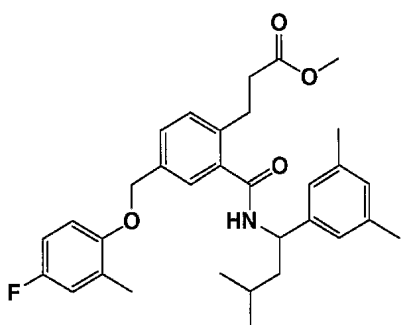
3-(2-((3- -1-(3,5-))))-4-(2- -4-))



TLC: Rf 0.42(n- : =1:1).

5(41)

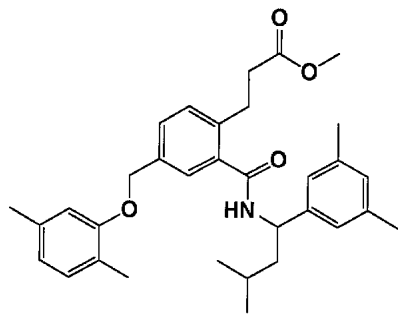
3-(2-((3- -1-(3,5-))))-4-(2- -4-))



TLC: Rf 0.43(n- : =1:1).

5(42)

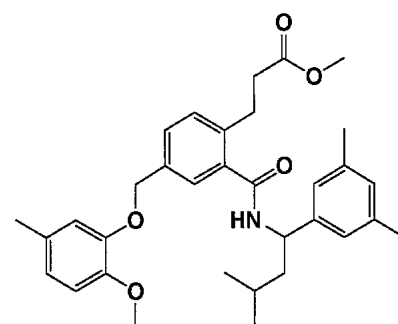
3-(2-((3- -1-(3,5-))))-4-(2,5-))



TLC: Rf 0.42(n- : =1:1).

5(43)

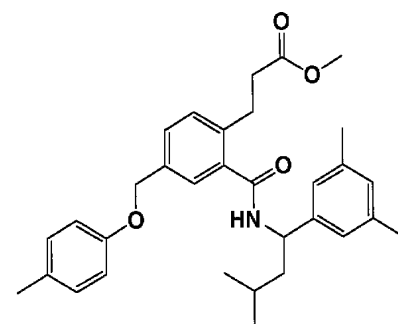
3-(2-((3- -1-(3,5-))) -4-(2- -5-))



TLC: Rf 0.51(n- : =2:1).

5(44)

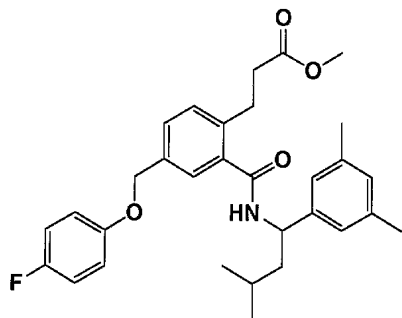
3-(2-((3- -1-(3,5-))) -4-(4-))



TLC: Rf 0.50(n- : =2:1).

5(45)

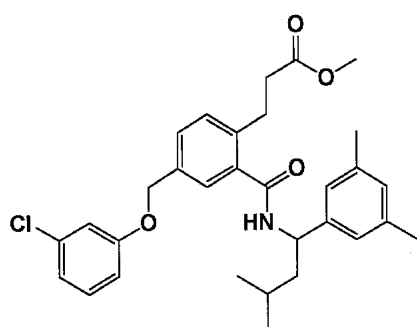
3-(2-((3- -1-(3,5-))) -4-(4-))



TLC: Rf 0.52(n- : =2:1).

5(46)

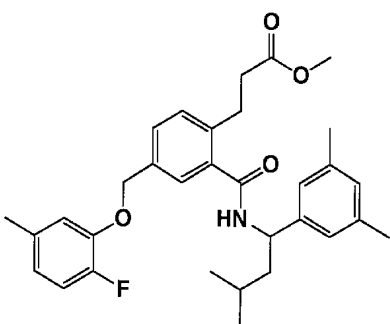
3-(2-((3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.59(n- : =2:1).

5(47)

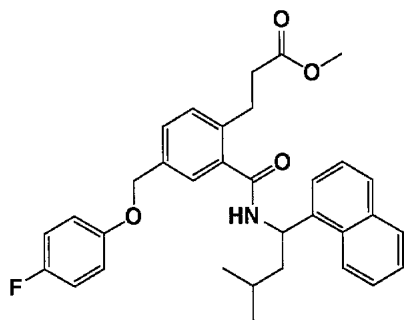
3-(2-((3- -1-(3,5-))))-4-(2- -5-))



TLC: Rf 0.46(n- : =2:1).

5(48)

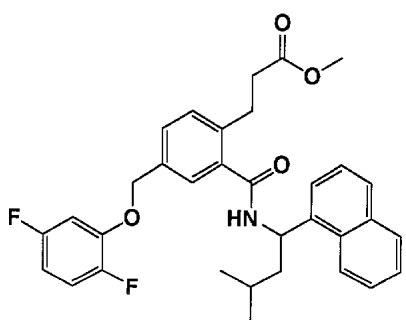
3-(2-((3- -1-(-1-))))-4-(4-))



TLC: Rf 0.49(n- : =1:1).

5(49)

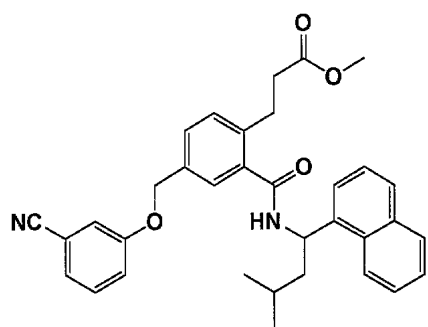
3-(2-((3- -1-(-1-))))-4-(2,5-))



TLC: Rf 0.49(n- : =1:1).

5(50)

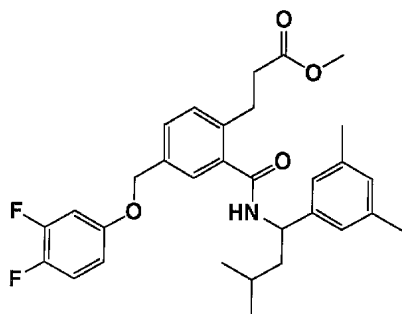
3-(2-((3- -1-(-1-))))-4-(3-))



TLC: Rf 0.52(n- : =1:1).

5(51)

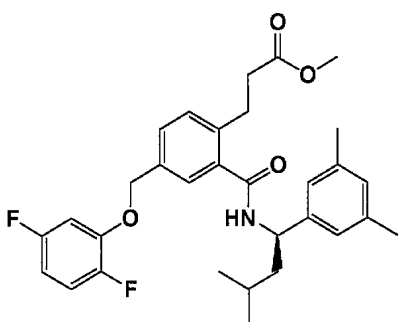
3-(2-((3- -1-(3,5-))))-4-(3,4-))



TLC: Rf 0.50(n- : =2:1).

5(52)

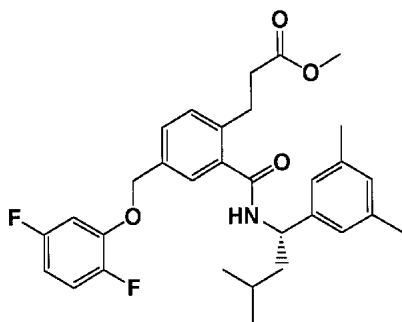
3-(2-(((1R)-3- -1-(3,5-))))-4-(2,5-))



TLC: Rf 0.57(n- : =2:1).

5(53)

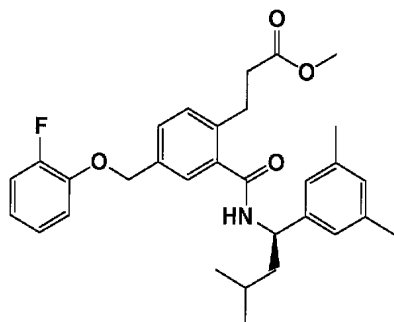
3-(2-(((1S)-3- -1-(3,5-))))-4-(2,5-))



TLC: Rf 0.57(n- : =2:1).

5(54)

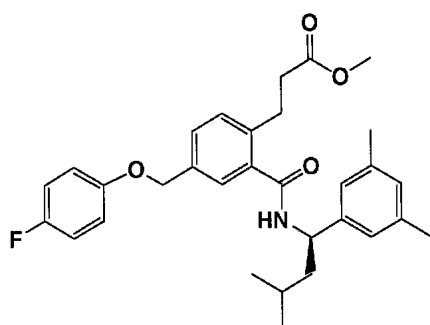
3-(2-(((1R)-3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.78(n- : =1:1).

5(55)

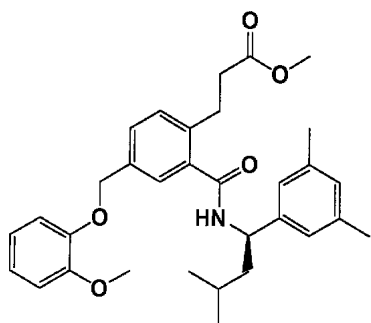
3-(2-(((1R)-3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.45(n- : =3:1).

5(56)

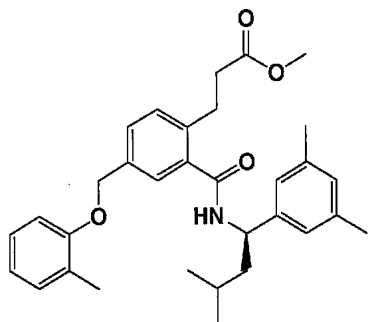
3-(2-(((1R)-3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.71(n- : =1:1).

5(57)

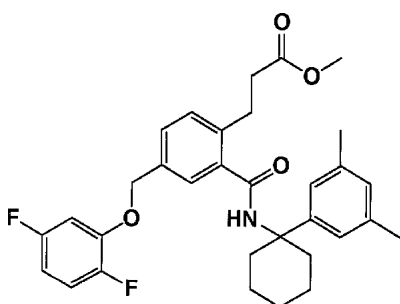
3-(2-(((1R)-3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.51(n- : =3:1).

5(58)

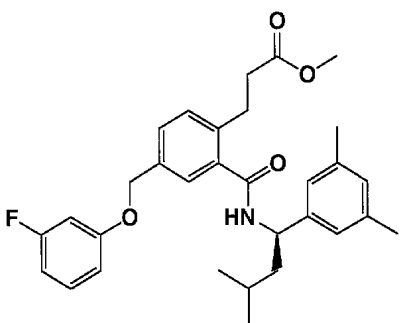
3-(2-((1-(3,5-))) -4-(2,5-))



TLC: Rf 0.52(n- : =2:1).

5(59)

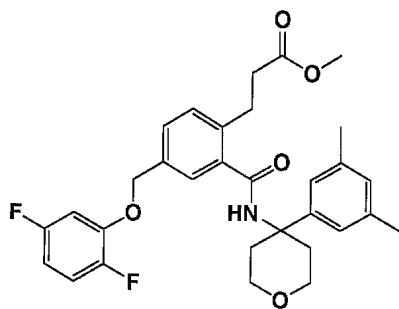
3-(2-(((1R)-3- -1-(3,5-))) -4-(3-))



TLC: Rf 0.70(n- : =1:1).

5(60)

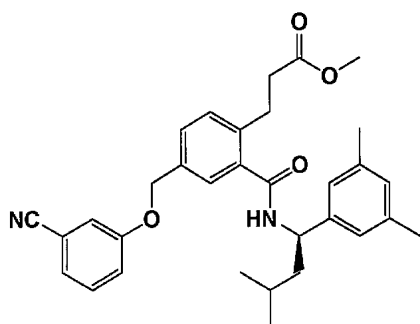
3-(2-(4-(3,5-) -4-) -4-(2,5-))



TLC: Rf 0.49(n- : =1:1).

5(61)

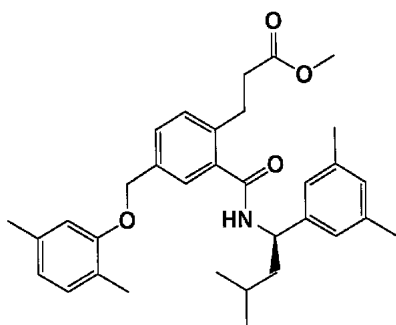
3-(2-(((1R)-3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.59(n- : =2:1).

5(62)

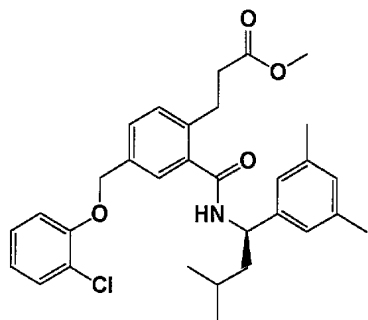
3-(2-(((1R)-3- -1-(3,5-))))-4-(2,5-))



TLC: Rf 0.67(n- : =3:1).

5(63)

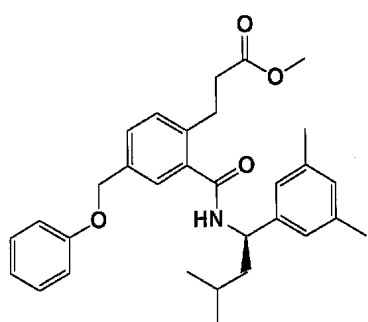
3-(2-(((1R)-3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.67(n- : =3:1).

5(64)

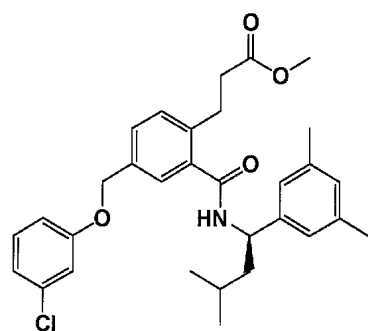
3-(2-(((1R)-3- -1-(3,5-))))-4-



TLC: Rf 0.67(: =2:1).

5(65)

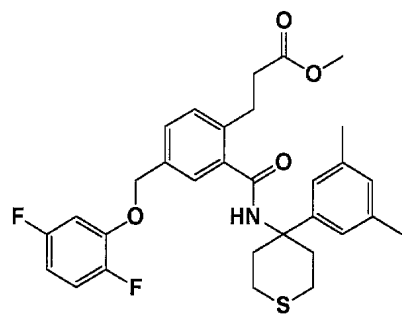
3-(2-(((1R)-3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.75(: =2:1).

5(66)

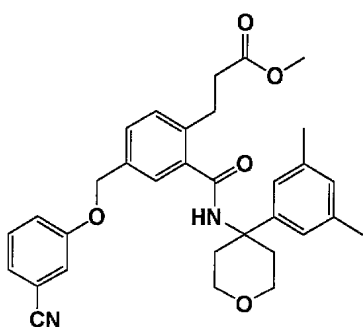
3-(2-(4-(3,5-)) -4-))-4-(2,5-))



TLC: Rf 0.50(n- : =3:1).

5(67)

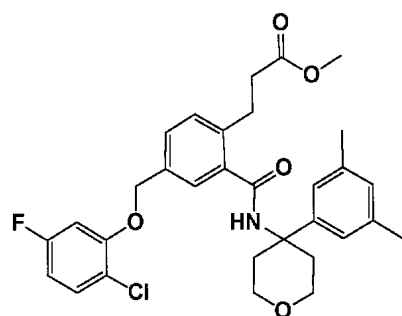
3-(2-((4-(3,5-)) -4-))-4-(3-))



TLC: Rf 0.20(n- : =2:1).

5(68)

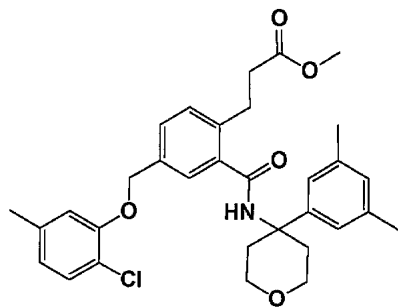
3-(2-((4-(3,5-)) -4-))-4-(2- -5-))



TLC: Rf 0.70(n- : =1:1).

5(69)

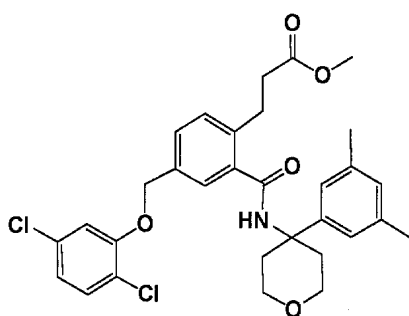
3-(2-((4-(3,5-)) -4-))-4-(2- -5-))



TLC: Rf 0.69(n- : =1:1).

5(70)

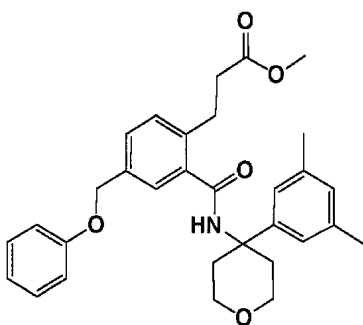
3-(2-((4-(3,5-) -4-))-4-(2,5-))



TLC: Rf 0.70(n- : =1:1).

5(71)

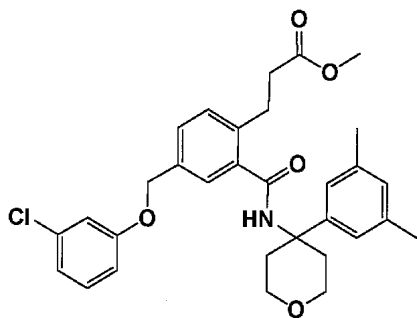
3-(2-((4-(3,5-) -4-))-4-



TLC: Rf 0.68(n- : =1:1).

5(72)

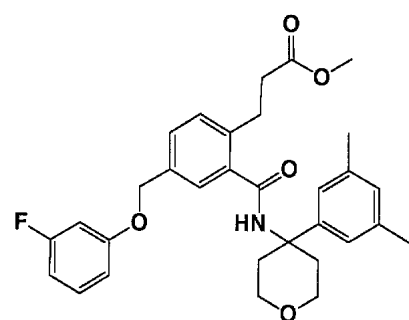
3-(2-((4-(3,5-) -4-))-4-(3-))



TLC: Rf 0.70(n- : =1:1).

5(73)

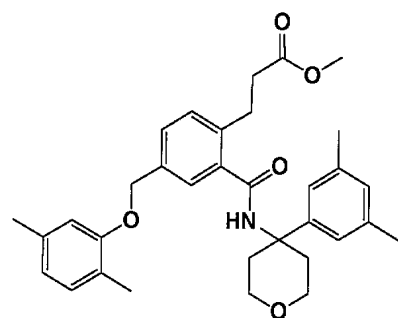
3-(2-((4-(3,5-) -4-))-4-(3-))



TLC: Rf 0.42(n- : =1:1).

5(74)

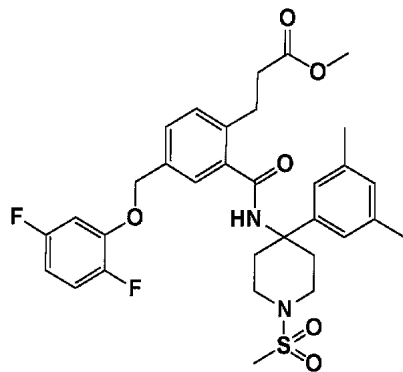
3-(2-((4-(3,5-) -4-))-4-(2,5-))



TLC: Rf 0.50(n- : =1:1).

5(75)

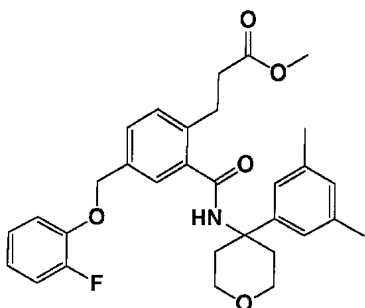
3-(2-((1- -4-(3,5-) -4-))-4-(2,5-))



TLC: Rf 0.40(n- : =1:1).

5(76)

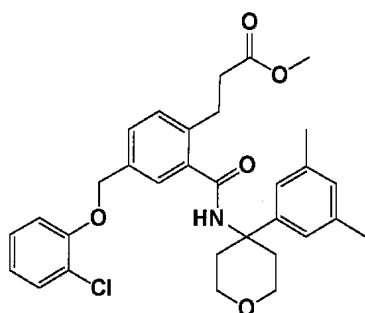
3-(2-((4-(3,5-) -4-))-4-(2-))



TLC: Rf 0.41(n- : =1:1).

5(77)

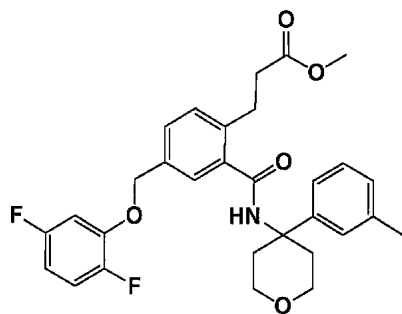
3-(2-((4-(3,5-) -4-))-4-(2-))



TLC: Rf 0.41(n- : =1:1).

5(78)

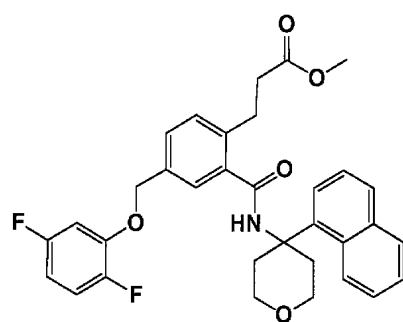
3-(2-((4-(3-) -4-))-4-(2,5-))



TLC: Rf 0.34(n- : =2:1).

5(79)

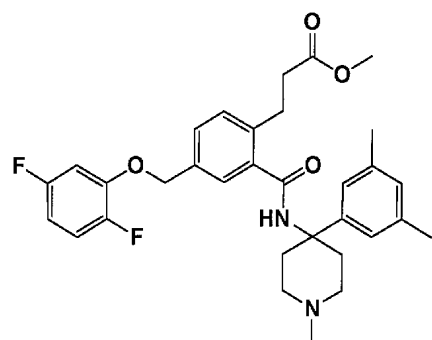
3-(2-((4-(-1-) -4-))-4-(2,5-))



TLC: Rf 0.52(n- : =1:1).

5(80)

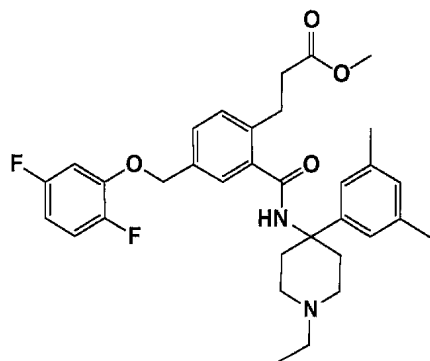
3-(2-((1- -4-(3,5-) -4-))-4-(2,5-))



TLC: Rf 0.53(: =9:1).

5(81)

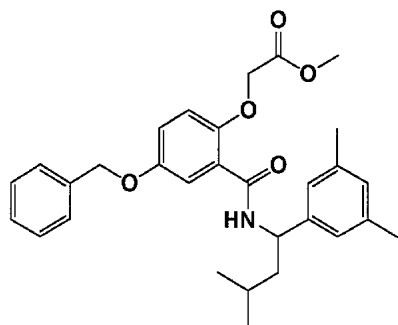
3-(2-((1- -4-(3,5-) -4-))-4-(2,5-))



TLC: Rf 0.52(: =10:1).

5(82)

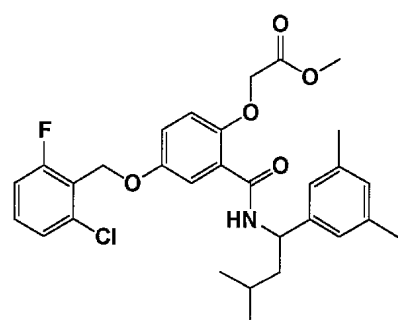
2-(2-((3- -1-(3,5-))) -4-)



TLC: Rf 0.28(n- : =3:1).

5(83)

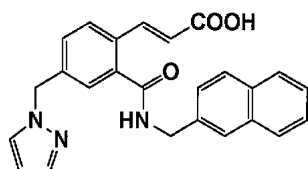
2-(2-((3- -1-(3,5-))) -4-(2- -6-))



TLC: Rf 0.75(n- : =1:1).

6

3-(2-((-1-)) -4-(2-))

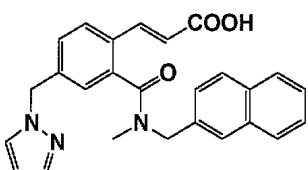


TLC: Rf 0.29(: =10:1);

NMR(300MHz, DMSO-d₆): 9.13(t, J=6.0Hz, 1H), 7.96-7.80(m, 7H), 7.60-7.44(m, 4H), 7.39-7.34(m, 1H), 7.32-7.24(m, 1H), 6.52(d, J=15.9Hz, 1H), 6.31(t, J=2.0Hz, 1H), 5.42(s, 2H), 4.64(d, J=6.0Hz, 2H).

6(4)

(2E)-3-(2-(N-(2-(1H-imidazol-2-yl)ethyl)ethyl)amino)-4-(1-naphthyl)-2-propenoic acid

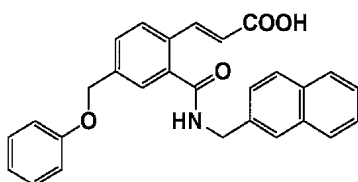


TLC: Rf 0.33(: =10:1);

NMR(300MHz, CDCl₃): 7.92-7.06(m, 13H), 6.44 6.41(d, J=15.9Hz, 1H), 6.32 6.16(t, J=2.1Hz, 1H), 5.38 5.28(s, 2H), 4.95 4.42(s, 2H), 3.13 2.66(s, 3H).

6(5)

(2E)-3-(2-((1H-imidazol-2-yl)ethyl)amino)-4-(1-naphthyl)-2-propenoic acid

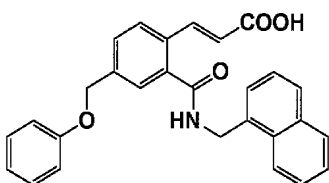


TLC: Rf 0.52(: =10:1);

NMR(300MHz, DMSO-d₆): 9.19(t, J=5.8Hz, 1H), 8.02-7.82(m, 6H), 7.64-7.44(m, 5H), 7.38-7.26(m, 2H), 7.04(d, J=7.8Hz, 2H), 6.96(t, J=7.4Hz, 1H), 6.55(d, J=15.9Hz, 1H), 5.19(s, 2H), 4.66(d, J=5.8Hz, 2H).

6(6)

(2E)-3-(2-(benzyloxy)ethyl)-4-(1-naphthyl)-2-propenoic acid

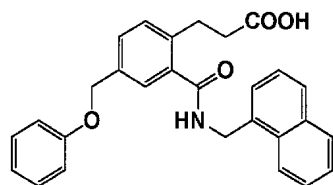


TLC: Rf 0.53(: =10:1);

NMR(300MHz, DMSO-d₆): 9.14(t, J=5.4Hz, 1H), 8.20(d, J=8.4Hz, 1H), 8.02-7.84(m, 4H), 7.66-7.46(m, 6H), 7.36-7.26(m, 2H), 7.01(d, J=7.8Hz, 2H), 6.96(t, J=7.5Hz, 1H), 6.53(d, J=15.9Hz, 1H), 5.16(s, 2H), 4.97(d, J=5.4Hz, 2H).

6(7)

3-(2-((-1-))-4-

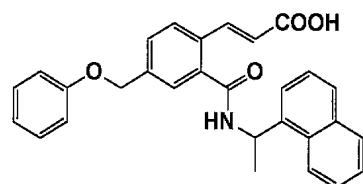


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 8.11(d, J=8.4Hz, 1H), 7.92-7.79(m, 2H), 7.62-7.35(m, 6H), 7.31-7.20(m, 3H), 6.98-6.84(m, 3H), 6.37(t, J=5.1Hz, 1H), 5.08(d, J=5.1Hz, 2H), 4.95(s, 2H), 3.10(t, J=7.5Hz, 2H), 2.76(t, J=7.5Hz, 2H).

6(8)

(2E)-3-(2-(1-(-1-))-4-

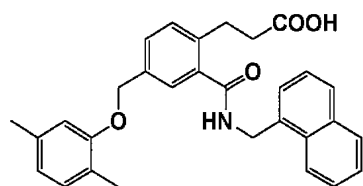


TLC: Rf 0.21(: =10:1);

NMR(300MHz, CDCl₃): 8.24(d, J=8.7Hz, 1H), 8.14(d, J=15.9Hz, 1H), 7.88(d, J=8.4Hz, 1H), 7.83(d, J=8.4 Hz, 1H), 7.64-7.42(m, 6H), 7.30-7.22(m, 3H), 6.99-6.88(m, 3H), 6.40(d, J=15.9Hz, 1H), 6.18(m, 1H), 6.03(br d, J=7.8Hz, 1H), 5.04(s, 2H), 1.84(d, J=6.6Hz, 3H).

6(9)

3-(2-((-1-))-4-(2,5-

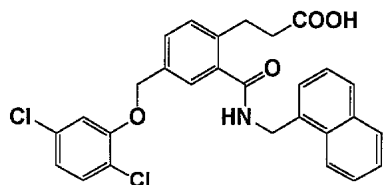


TLC: Rf 0.56(: =10:1);

NMR(300MHz, DMSO-d₆): 9.00(t, J=5.5Hz, 1H), 8.25-8.16(m, 1H), 8.01-7.93(m, 1H), 7.88(d, J=8.1Hz, 1 H), 7.64-7.42(m, 6H), 7.34(d, J=8.1Hz, 1H), 7.02(d, J=7.5Hz, 1H), 6.85(s, 1H), 6.67(d, J=7.2Hz, 1H), 5.06(s, 2 H), 4.94(d, J=5.5Hz, 2H), 2.96(t, J=7.8Hz, 2H), 2.55(t, J=7.8Hz, 2H), 2.26(s, 3H), 2.10(s, 3H).

6(10)

3-(2-((-1-))-4-(2,5-

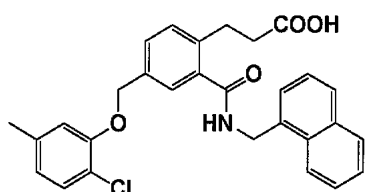


TLC: Rf 0.47(: =10:1);

NMR(300MHz, DMSO-d₆): 12.1(s, 1H), 9.00(t, J=6.0Hz, 1H), 8.17(m, 1H), 7.94(m, 1H), 7.85(d, J=7.8Hz, 1H), 7.59-7.40(m, 7H), 7.35(d, J=2.1Hz, 1H), 7.33(d, J=7.8Hz, 1H), 7.03(dd, J=8.4, 2.1Hz, 1H), 5.19(s, 2H), 4.91(d, J=6.0Hz, 2H), 2.93(t, J=8.1Hz, 2H), 2.52(t, J=8.1Hz, 2H).

6(11)

3-(2-((-1-))-4-(2- -5-))

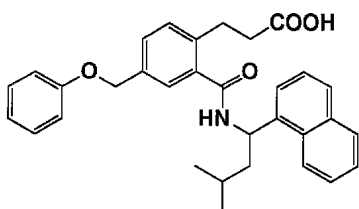


TLC: Rf 0.47(: =10:1);

NMR(300MHz, DMSO-d₆): 12.1(s, 1H), 8.98(t, J=5.4Hz, 1H), 8.18(m, 1H), 7.95(m, 1H), 7.85(d, J=7.8Hz, 1H), 7.60-7.41(m, 6H), 7.37-7.26(m, 2H), 7.07(d, J=1.5Hz, 1H), 6.77(dd, J=8.1, 1.2Hz, 1H), 5.13(s, 2H), 4.91(d, J=5.4Hz, 2H), 2.94(t, J=8.1Hz, 2H), 2.53(t, J=8.1Hz, 2H), 2.27(s, 3H).

6(12)

3-(2-((3- -1-(-1-)))-4-

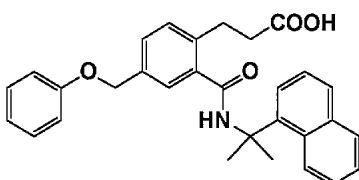


TLC: Rf 0.25(: =1:1);

NMR(300MHz, CDCl₃): 8.32(d, J=8.7Hz, 1H), 7.88(d, J=7.8Hz, 1H), 7.80(d, J=8.4Hz, 1H), 7.61-7.25(m, 9H), 7.00-6.90(m, 3H), 6.38(d, J=8.7Hz, 1H), 6.14(dt, J=8.7, 7.2Hz, 1H), 4.99(s, 2H), 3.04(t, J=7.2Hz, 2H), 2.74(t, J=7.2Hz, 2H), 1.97(t, J=7.2Hz, 2H), 1.80(m, 1H), 1.13(d, J=6.6Hz, 3H), 1.01(d, J=6.6Hz, 3H).

6(13)

3-(2-((1- -1-(-1-)))-4-

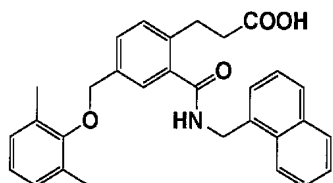


TLC: Rf 0.15(: =1:1);

NMR(300MHz, CDCl₃): 8.55(m, 1H), 7.91(m, 1H), 7.81(d, J=8.1Hz, 1H), 7.68(d, J=7.8Hz, 1H), 7.50-7.23(m, 8H), 7.00-6.90(m, 3H), 6.53(s, 1H), 4.99(s, 2H), 2.98(t, J=7.5Hz, 2H), 2.69(t, J=7.5Hz, 2H), 2.12(s, 6H).

6(14)

3-(2-((-1-))-4-(2,6-))

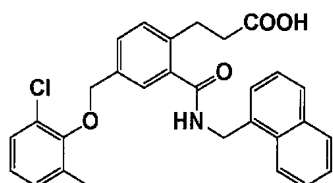


TLC: Rf 0.53(: =10:1);

NMR(300MHz, DMSO-d₆): 8.98(t, J=5.4Hz, 1H), 8.19(m, 1H), 7.96(m, 1H), 7.86(d, J=8.1Hz, 1H), 7.61-7.44(m, 6H), 7.33(d, J=8.7Hz, 1H), 7.07-7.00(m, 2H), 6.93(m, 1H), 4.92(d, J=5.4Hz, 1H), 4.74(s, 2H), 2.95(t, J=7.8Hz, 2H), 2.53(t, J=7.8Hz, 2H), 2.23(s, 6H).

6(15)

3-(2-((-1-))-4-(2- -6-))

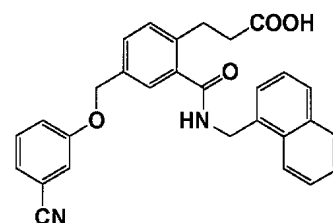


TLC: Rf 0.53(: =10:1);

NMR(300MHz, DMSO-d₆): 8.98(t, J=5.4Hz, 1H), 8.19(m, 1H), 7.95(m, 1H), 7.86(d, J=8.4Hz, 1H), 7.61-7.44(m, 6H), 7.37-7.30(m, 2H), 7.21(d, J=7.8Hz, 1H), 7.06(t, J=8.1Hz, 1H), 4.92(d, J=5.4Hz, 1H), 4.87(s, 2H), 2.95(t, J=8.4Hz, 2H), 2.53(t, J=8.4Hz, 2H), 2.25(s, 3H).

6(16)

3-(2-((-1-))-4-(3-))



[]

TLC: Rf 0.53(: =10:1);

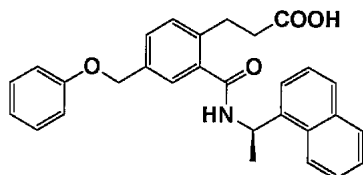
NMR(300MHz, DMSO-d₆): 8.97(t, J=5.4Hz, 1H), 8.18(m, 1H), 7.95(m, 1H), 7.85(d, J=7.2Hz, 1H), 7.60-7.30(m, 11H), 5.13(s, 2H), 4.91(d, J=5.4Hz, 2H), 2.94(t, J=7.8Hz, 2H), 2.52(t, J=7.8Hz, 2H).

[]

TLC: Rf 0.56(: =10:1).

6(17)

3-(2-(((1R)-1-(-1-))))-4-

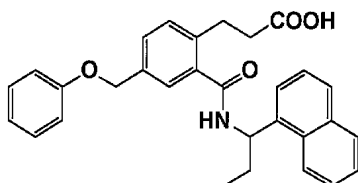


TLC: Rf 0.15(: =1:1);

NMR(300MHz, CDCl₃): 8.23(d, J=7.8Hz, 1H), 7.89(d, J=7.5Hz, 1H), 7.83(d, J=8.4Hz, 1H), 7.62-7.25(m, 9 H), 6.98-6.88(m, 3H), 6.36(d, J=8.4Hz, 1H), 6.14(m, 1H), 4.97(s, 2H), 3.10(t, J=7.2Hz, 2H), 2.78(t, J=7.2Hz, 2 H), 1.80(d, J=6.6Hz, 3H).

6(18)

3-(2-(((1- (-1-))))-4-

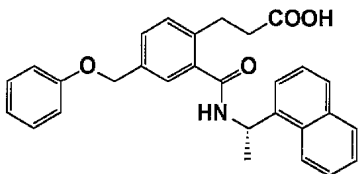


TLC: Rf 0.18(: =1:1);

NMR(300MHz, CDCl₃): 8.28(d, J=8.7Hz, 1H), 7.88(d, J=8.1Hz, 1H), 7.81(d, J=7.8Hz, 1H), 7.60-7.24(m, 9 H), 7.00-6.89(m, 3H), 6.37(d, J=8.7Hz, 1H), 5.94(dt, J=8.7, 8.7Hz, 1H), 4.98(s, 2H), 3.05(t, J=7.5Hz, 2H), 2.75(t, J=7.5Hz, 2H), 2.15(m, 2H), 1.10(t, J=7.2Hz, 3H).

6(19)

3-(2-(((1S)-1-(-1-)))-4-

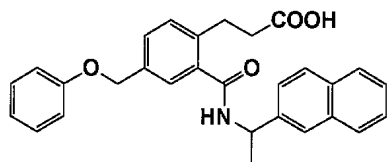


TLC: Rf 0.15(: =1:1);

NMR(300MHz, CDCl₃): 8.22(d, J=7.8Hz, 1H), 7.89(d, J=7.8Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.25(m, 9 H), 6.98-6.88(m, 3H), 6.36(d, J=7.8Hz, 1H), 6.14(m, 1H), 4.97(s, 2H), 3.09(t, J=7.5Hz, 2H), 2.78(t, J=7.5Hz, 2 H), 1.80(d, J=6.9Hz, 3H).

6(20)

3-(2-(((1- (-2-))))-4-

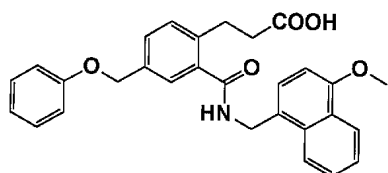


TLC: Rf 0.17(: =10:1);

NMR(300MHz, CDCl₃): 7.84(m, 4H), 7.53-7.42(m, 5H), 7.29(m, 3H), 6.97(m, 3H), 6.56(d, J=8.1Hz, 1H), 5.50(m, 1H), 5.02(s, 2H), 3.07(t, J=7.5Hz, 2H), 2.77(t, J=7.5Hz, 2H), 1.70(d, J=6.9Hz, 3H).

6(21)

3-(2-((4- -1-))-4-)

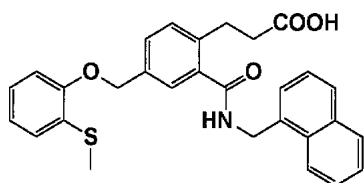


TLC: Rf 0.53(: =9:1);

NMR(300MHz, DMSO-d₆): 8.87(t, J=5.6Hz, 1H), 8.19(dd, J=8.3, 1.4Hz, 1H), 8.12(d, J=7.5Hz, 1H), 7.62-7.48(m, 2H), 7.46-7.36(m, 3H), 7.32-7.23(m, 3H), 7.00-6.89(m, 4H), 5.04(s, 2H), 4.82(d, J=5.6Hz, 2H), 3.96(s, 3H), 2.92(t, J=7.8Hz, 2H), 2.50(m, 2H).

6(22)

3-(2-((-1-))-4-(2-))

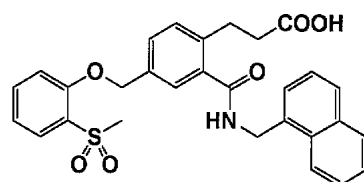


TLC: Rf 0.34(: =9:1);

NMR(300MHz, CDCl₃): 8.12(d, J=7.2Hz, 1H), 7.92(dd, J=8.1, 1.2Hz, 1H), 7.84(d, J=8.1Hz, 1H), 7.64-7.36(m, 6H), 7.34-7.25(m, 1H), 7.14-7.02(m, 2H), 6.95(t, J=7.2Hz, 1H), 6.82(d, J=7.2Hz, 1H), 6.45(brs, 1H), 5.15-5.05(m, 2H), 5.07(s, 2H), 3.13(t, J=7.5Hz, 2H), 2.80(t, J=7.5Hz, 2H), 2.28(s, 3H).

6(23)

3-(2-((-1-))-4-(2-))

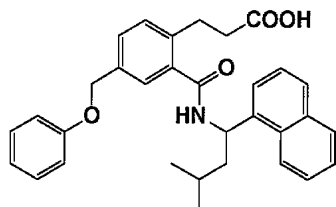


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 8.18(d, J=8.4Hz, 1H), 7.94(dd, J=8.4, 1.8Hz, 1H), 7.93-7.82(m, 2H), 7.75(d, J=1.8 Hz, 1H), 7.63-7.37(m, 6H), 7.32-7.25(m, 1H), 7.15-6.97(m, 3H), 5.19(s, 2H), 5.10(d, J=5.4Hz, 2H), 3.16(t, J=7.5Hz, 2H), 2.92(s, 3H), 2.83(t, J=7.5Hz, 2H).

6(24)

4-(2-((3- -1-(-1-))))-4-)

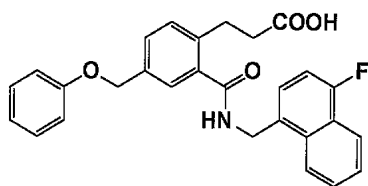


TLC: Rf 0.59(: =10:1);

NMR(300MHz, CDCl₃): 8.34(d, J=8.4Hz, 1H), 7.89(d, J=7.8Hz, 1H), 7.80(d, J=7.8Hz, 1H), 7.63-7.18(m, 9 H), 7.02-6.88(m, 3H), 6.20-6.00(m, 2H), 4.99(s, 2H), 2.74(t, J=7.7Hz, 2H), 2.27-2.17(m, 2H), 2.00-1.40(m, 5 H), 1.13(d, J=6.6Hz, 3H), 1.01(d, J=6.6Hz, 3H).

6(25)

3-(2-((4- -1-))-4-)

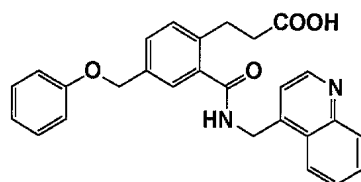


TLC: Rf 0.13(: =10:1);

NMR(300MHz, CDCl₃): 8.14(m, 2H), 7.68-7.58(m, 2H), 7.46-7.38(m, 3H), 7.31-7.23(m, 3H), 7.09(dd, J=9.9, 8.4Hz, 1H), 6.98-6.87(m, 3H), 6.39(t, J=5.1Hz, 1H), 5.04(d, J=5.1Hz, 2H), 4.96(s, 2H), 3.09(t, J=6.9Hz, 2 H), 2.77(t, J=6.9Hz, 2H).

6(26)

3-(2-((-4-))-4-)

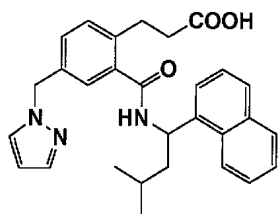


TLC: Rf 0.26(: =10:1);

NMR(300MHz, CDCl₃): 9.12(t, J=5.7Hz, 1H), 8.85(d, J=4.5Hz, 1H), 8.24(d, J=8.1Hz, 1H), 8.06(d, J=8.1Hz , 1H), 7.79(t, J=7.8Hz, 1H), 7.66(t, J=8.1Hz, 1H), 7.55-7.43(m, 3H), 7.37-7.25(m, 3H), 7.01(m, 2H), 6.94(t, J=7.2Hz, 1H), 5.09(s, 2H), 4.96(d, J=5.7Hz, 2H), 2.94(t, J=7.5Hz, 2H), 2.52(t, J=7.5Hz, 2H).

6(27)

3-(2-((3- -1-(-1-))))-4-(-1-))

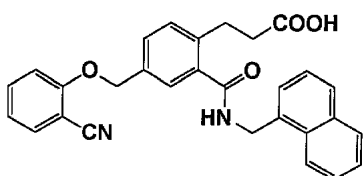


TLC: Rf 0.41(: =10:1);

NMR(300MHz, CDCl₃): 8.28(d, J=8.1Hz, 1H), 7.87(m, 1H), 7.79(d, J=7.5Hz, 1H), 7.62-7.36(m, 6H), 7.22-7.06(m, 3H), 6.65(d, J=8.7Hz, 1H), 6.27(t, J=2.1Hz, 1H), 6.19(m, 1H), 5.25(s, 2H), 2.98(t, J=7.5Hz, 2H), 2.68(t, J=7.5Hz, 2H), 1.92(t, J=7.1Hz, 2H), 1.78(m, 1H), 1.11(d, J=6.6Hz, 3H), 0.99(d, J=6.6Hz, 3H).

6(28)

3-(2-((-1-)))-4-(2-))

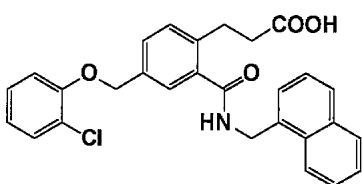


TLC: Rf 0.23(: =10:1);

NMR(300MHz, DMSO-d₆): 9.01(t, J=4.8Hz, 1H), 8.17(dd, J=7.8, 1.5Hz, 1H), 7.94(d, J=6.9Hz, 1H), 7.85(d, J=7.2Hz, 1H), 7.74(d, J=7.5Hz, 1H), 7.65(t, J=7.2Hz, 1H), 7.60-7.44(m, 6H), 7.33(m, 2H), 7.09(t, J=7.8Hz, 1H), 5.26(s, 2H), 4.91(d, J=4.8Hz, 2H), 2.93(t, J=8.1Hz, 2H), 2.52(t, J=8.1Hz, 2H).

6(29)

3-(2-((-1-)))-4-(2-))

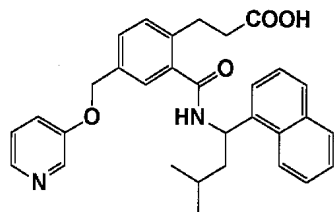


TLC: Rf 0.20(: =10:1);

NMR(300MHz, CDCl₃): 8.12(d, J=7.8Hz, 1H), 7.90(d, J=7.8Hz, 1H), 7.84(d, J=8.4Hz, 1H), 7.62-7.40(m, 6H), 7.36-7.26(m, 2H), 7.15(ddd, J=8.7, 8.7, 3.0Hz, 1H), 6.88(m, 2H), 6.39(t, J=4.8Hz, 1H), 5.10(d, J=4.8Hz, 2H), 5.05(s, 2H), 3.12(t, J=7.5Hz, 2H), 2.79(t, J=7.5Hz, 2H).

6(30)

3-(2-((3- -1-(-1-))))-4-(-3-))

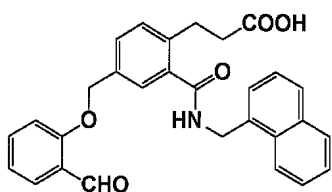


TLC: Rf 0.54(: =10:1);

NMR(300MHz, DMSO-d₆): 9.09(d, J=8.1Hz, 1H), 8.36(d, J=3.3Hz, 1H), 8.27-8.16(m, 2H), 7.97(d, J=7.8Hz, 1H), 7.84(d, J=8.1Hz, 1H), 7.68-7.43(m, 6H), 7.41-7.30(m, 3H), 5.93(m, 1H), 5.19(s, 2H), 2.98-2.80(m, 2H), 2.62-2.38(m, 2H), 1.97-1.76(m, 2H), 1.59(m, 1H), 1.11(d, J=6.0Hz, 3H), 0.93(d, J=6.0Hz, 3H).

6(31)

3-(2-((-1-))-4-(2-))

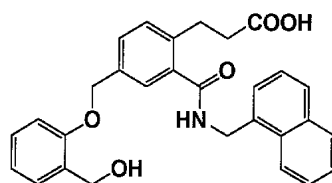


TLC: Rf 0.55(: =10:1);

NMR(300MHz, DMSO-d₆): 10.44(s, 1H), 9.02(t, J=6.0Hz, 1H), 8.19(m, 1H), 7.97(m, 1H), 7.87(m, 1H), 7.78-7.42(m, 8H), 7.40-7.28(m, 2H), 7.11(t, J=7.5Hz, 1H), 5.27(s, 2H), 4.94(d, J=6.0Hz, 2H), 2.96(t, J=7.8Hz, 2H), 2.55(t, J=7.8Hz, 2H).

6(32)

3-(2-((-1-))-4-(2-))

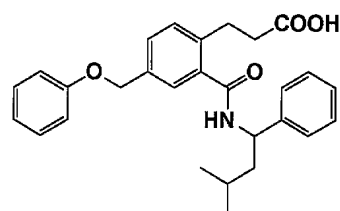


TLC: Rf 0.50(: =10:1);

NMR(300MHz, DMSO-d₆): 9.00(t, J=5.7Hz, 1H), 8.20(d, J=7.8Hz, 1H), 7.97(m, 1H), 7.87(m, 1H), 7.66-7.30(m, 8H), 7.20(m, 1H), 7.02(d, J=8.1Hz, 1H), 6.96(t, J=7.5Hz, 1H), 5.10(s, 2H), 5.03(brs, 1H), 4.94(d, J=5.7Hz, 2H), 4.57(s, 2H), 2.96(t, J=8.0Hz, 2H), 2.54(t, J=8.0Hz, 2H).

6(33)

3-(2-((3- -1-))-4-)

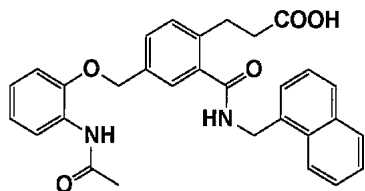


TLC: Rf 0.31(: =10:1);

NMR(300MHz, CDCl₃): 7.45-7.25(m, 10H), 7.02-6.93(m, 3H), 6.40(d, J=7.2Hz, 1H), 5.23(m, 1H), 5.02(s, 2H), 3.01(dt, J=2.7, 7.8Hz, 2H), 2.72(t, J=7.8Hz, 2H), 1.85-1.65(m, 2H), 1.60(m, 1H), 0.98(d, J=6.3Hz, 6H).

6(34)

3-(2-((-1-))-4-(2-))

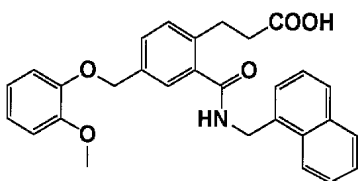


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 9.07(s, 1H), 9.00-8.92(m, 1H), 8.17(d, J=7.2Hz, 1H), 7.98-7.91(m, 1H), 7.88-7.76(m, 2H), 7.68-7.40(m, 6H), 7.30(d, J=8.1Hz, 1H), 7.10-6.96(m, 2H), 6.92-6.83(m, 1H), 5.14(s, 2H), 4.92(d, J=5.4Hz, 2H), 2.94(t, J=7.5Hz, 2H), 2.52(t, J=7.5Hz, 2H), 2.01(s, 3H).

6(35)

3-(2-((-1-))-4-(2-))

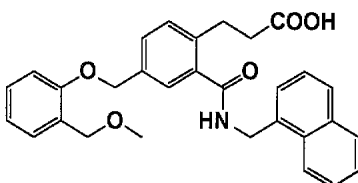


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.11(d, J=8.4Hz, 1H), 7.92-7.80(m, 2H), 7.61-7.36(m, 6H), 7.29-7.23(m, 1H), 6.93-6.78(m, 4H), 6.42(m, 1H), 5.08(d, J=5.4Hz, 2H), 5.04(s, 2H), 3.75(s, 3H), 3.11(t, J=7.2Hz, 2H), 2.78(t, J=7.2Hz, 2H).

6(36)

3-(2-((-1-))-4-(2-))

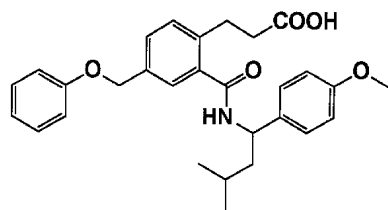


TLC: Rf 0.62(: =10:1);

NMR(300MHz, DMSO-d₆): 9.03(brs, 1H), 8.20(m, 1H), 7.97(m, 1H), 7.87(m, 1H), 7.64-7.39(m, 6H), 7.38-7.20(m, 3H), 7.06(d, J=8.1Hz, 1H), 6.95(t, J=7.5Hz, 1H), 5.11(s, 2H), 4.93(d, J=5.4Hz, 2H), 4.43(s, 2H), 3.26(s, 3H), 2.95(t, J=7.8Hz, 2H), 2.66-2.36(m, 2H).

6(37)

3-(2-((3- -1-(4-))))-4-)

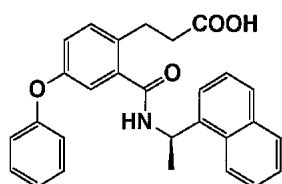


TLC: Rf 0.091(: =10:1);

NMR(300MHz, CDCl₃): 7.45-7.38(m, 2H), 7.34-7.23(m, 5H), 7.03-6.93(m, 3H), 6.88(d, J=8.7Hz, 2H), 6.33(d, J=8.1Hz, 1H), 5.19(dt, J=8.1, 8.1Hz, 1H), 5.02(s, 2H), 3.80(s, 3H), 3.01(dt, J=3.0, 7.2Hz, 2H), 2.72(t, J=7.2Hz, 2H), 1.85-1.65(m, 2H), 1.63(m, 1H), 0.97(d, J=6.6Hz, 6H).

6(38)

3-(2-(((1R)-1-(-1-))))-4-)

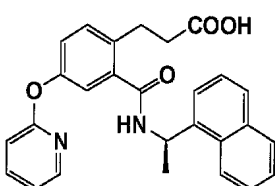


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 8.17(d, J=8.1Hz, 1H), 7.90-7.76(m, 2H), 7.60-7.40(m, 4H), 7.36-7.23(m, 2H), 7.19(d, J=8.3Hz, 1H), 7.10(m, 1H), 7.00-6.88(m, 4H), 6.30(d, J=8.1Hz, 1H), 6.10(m, 1H), 3.10-2.98(m, 2H), 2.80-2.68(m, 2H), 1.77(d, J=6.6Hz, 3H).

6(39)

3-(2-(((1R)-1-(-1-))))-4-(-2-))

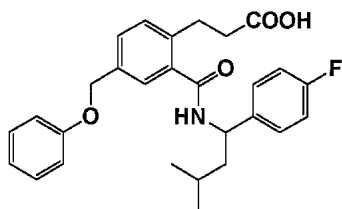


TLC: Rf 0.40(: =10:1);

NMR(300MHz, CDCl₃): 8.19(d, J=8.4Hz, 1H), 8.10(m, 1H), 7.86(m, 1H), 7.78(d, J=7.8Hz, 1H), 7.68(m, 1H), 7.59-7.40(m, 4H), 7.28-7.20(m, 1H), 7.12-7.04(m, 2H), 6.99(m, 1H), 6.89(d, J=8.4Hz, 1H), 6.61(d, J=8.1Hz, 1H), 6.10(m, 1H), 3.10-3.00(m, 2H), 2.76-2.66(m, 2H), 1.76(d, J=6.6Hz, 3H).

6(40)

3-(2-((3- -1-(4-))))-4-)

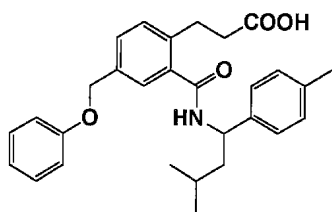


TLC: Rf 0.44(: =10:1);

NMR(300MHz, CDCl₃): 7.46-7.24(m, 7H), 7.08-6.93(m, 5H), 6.40(d, J=8.4Hz, 1H), 5.21(q, J=8.1Hz, 1H), 5.02(s, 2H), 3.05-2.95(m, 2H), 2.76-2.67(m, 2H), 1.86-1.51(m, 3H), 0.98(d, J=6.6Hz, 6H).

6(41)

3-(2-((3- -1-(4-))))-4-

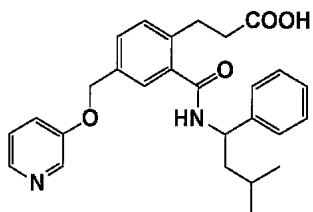


TLC: Rf 0.44(: =10:1);

NMR(300MHz, CDCl₃): 7.46-7.12(m, 9H), 7.02-6.92(m, 3H), 6.33(d, J=8.4Hz, 1H), 5.20(q, J=7.8Hz, 1H), 5.02(s, 2H), 3.07-2.95(m, 2H), 2.78-2.69(m, 2H), 2.34(s, 2H), 1.88-1.44(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(42)

3-(2-((3- -1-)))-4-(-3-))

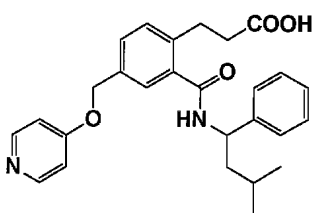


TLC: Rf 0.30(: =9:1);

NMR(300MHz, CDCl₃): 8.35-8.30(m, 1H), 8.23(dd, J=4.2, 1.8Hz, 1H), 7.44-7.22(m, 10H), 6.84(brd, J=9.0Hz, 1H), 5.24(q, J=6.9Hz, 1H), 5.06(s, 2H), 3.01(t, J=7.2Hz, 2H), 2.75(t, J=7.2Hz, 2H), 2.30-1.52(m, 3H), 0.98(d, J=6.6Hz, 6H).

6(43)

3-(2-((3- -1-)))-4-(-4-))

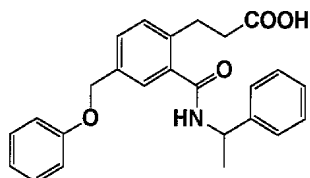


TLC: Rf 0.23(: =9:1);

NMR(300MHz, CDCl₃): 8.44-8.30(m, 2H), 7.78(brd, J=8.1Hz, 1H), 7.44-7.23(m, 8H), 6.93-6.82(m, 2H), 5.24(q, J=8.1Hz, 1H), 5.14(s, 2H), 2.97(t, J=6.3Hz, 2H), 2.85-2.74(m, 2H), 2.30-1.40(m, 3H), 0.97(d, J=6.6Hz, 6H).

6(44)

3-(2-((1-))-4-)

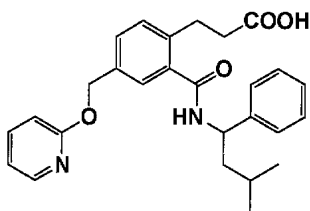


TLC: Rf 0.63(: =5:1);

NMR(300MHz, DMSO-d₆): 8.92(d, J=7.8Hz, 1H), 7.48-7.20(m, 10H), 7.07-6.91(m, 3H), 5.13(m, 1H), 5.09(s, 2H), 2.87(t, J=7.9Hz, 2H), 2.60-2.40(m, 2H), 1.44(d, J=7.2Hz, 3H).

6(45)

3-(2-((3- -1-))-4-(-2-))

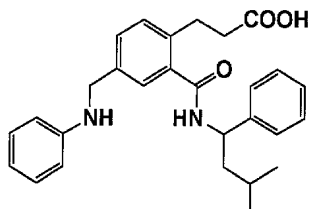


TLC: Rf 0.59(: =9:1);

NMR(300MHz, CDCl₃): 8.16(dd, J=5.1, 1.2Hz, 1H), 7.65-7.55(m, 1H), 7.50-7.40(m, 2H), 7.40-7.24(m, 6H), 6.94-6.86(m, 1H), 6.79(d, J=8.4Hz, 1H), 6.41(brd, J=8.4Hz, 1H), 5.34(s, 2H), 5.24(q, J=8.4Hz, 1H), 3.08-2.90(m, 2H), 2.72(t, J=7.2Hz, 2H), 2.00-1.40(m, 3H), 0.98(d, J=6.6Hz, 6H).

6(46)

3-(2-((3- -1-))-4-)

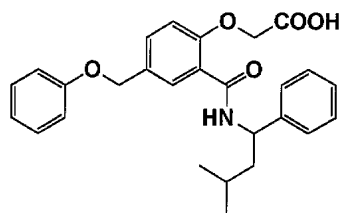


TLC: Rf 0.45(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.10(m, 10H), 6.73(t, J=7.5Hz, 1H), 6.61(d, J=7.5Hz, 2H), 6.37(d, J=8.4Hz, 1H), 5.21(q, J=7.2Hz, 1H), 4.29(s, 2H), 3.05-2.87(m, 2H), 2.76-2.60(m, 2H), 1.84-1.47(m, 3H), 0.96(d, J=6.6Hz, 6H).

6(47)

2-(2-((3-) -1-)) -4-

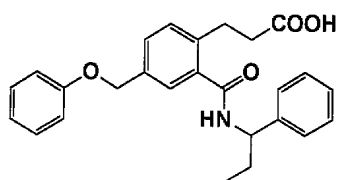


TLC: Rf 0.28(: =10:1);

NMR(300MHz, CDCl₃): 9.17(d, J=8.1Hz, 1H), 7.95(d, J=2.1Hz, 1H), 7.54(dd, J=8.4, 2.1Hz, 1H), 7.40-7.13(m, 8H), 7.00-6.87(m, 3H), 5.12(m, 1H), 5.05(s, 2H), 4.92(s, 2H), 1.84(m, 1H), 1.68-1.48(m, 2H), 0.90(d, J=6.3Hz, 3H), 0.89(d, J=6.3Hz, 3H).

6(48)

3-(2-((1-)) -4-

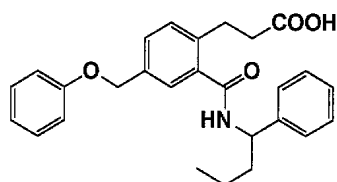


TLC: Rf 0.47(: =10:1);

NMR(300MHz, DMSO-d₆): 8.83(d, J=8.4Hz, 1H), 7.44-7.18(m, 10H), 7.03-6.90(m, 3H), 5.08(s, 2H), 4.86(m, 1H), 2.84(t, J=7.8Hz, 2H), 2.46(t, J=7.8Hz, 2H), 1.82-1.64(m, 2H), 0.90(t, J=7.5Hz, 3H).

6(49)

3-(2-((1-)) -4-

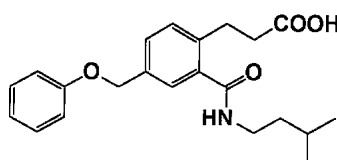


TLC: Rf 0.47(: =10:1);

NMR(300MHz, CDCl₃): 7.47-7.24(m, 10H), 7.02-6.91(m, 3H), 6.41(d, J=8.1Hz, 1H), 5.15(q, J=7.8Hz, 1H), 5.03(s, 2H), 3.08-2.97(m, 2H), 2.78-2.69(m, 2H), 1.98-1.74(m, 2H), 1.52-1.23(m, 2H), 0.96(t, J=7.2Hz, 3H).

6(50)

3-(2-((3-)) -4-

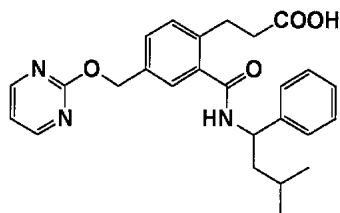


TLC: Rf 0.36(: =1:3);

NMR(300MHz, CDCl₃): 7.45-7.40(m, 2H), 7.34-7.26(m, 3H), 7.02-6.93(m, 3H), 6.14(m, 1H), 5.03(s, 2H), 3.50-3.41(m, 2H), 3.08(t, J=7.4Hz, 2H), 2.79(t, J=7.4Hz, 2H), 1.68(m, 1H), 1.55-1.46(m, 2H), 0.95(d, J=6.6 Hz, 6H).

6(51)

3-(2-((3- -1-))-4-(-2-))

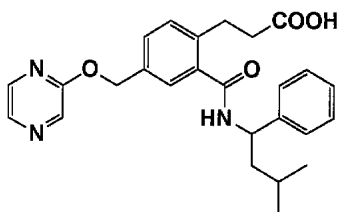


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 8.53(d, J=4.5Hz, 2H), 7.52-7.46(m, 2H), 7.40-7.20(m, 6H), 6.97(t, J=4.5Hz, 1H), 6.45(brd, J=7.8Hz, 1H), 5.40(s, 2H), 5.28-5.18(m, 1H), 3.01(dt, J=2.7, 7.5Hz, 2H), 2.72(t, J=7.5Hz, 2H), 1.90-1.40(m, 3H), 0.99(d, J=6.6Hz, 6H).

6(52)

3-(2-((3- -1-))-4-(-2-))

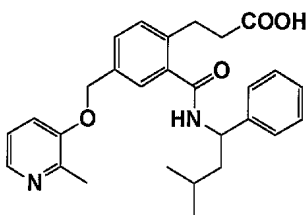


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 8.27(d, J=1.2Hz, 1H), 8.15(d, J=2.7Hz, 1H), 8.09(dd, J=2.7, 1.2Hz, 1H), 7.48-7.42(m, 2H), 7.42-7.24(m, 6H), 6.44(brd, J=8.1Hz, 1H), 5.35(s, 2H), 5.30-5.20(m, 1H), 3.06-2.96(m, 2H), 2.80-2.70(m, 2H), 1.88-1.40(m, 3H), 0.99(d, J=6.6Hz, 6H).

6(53)

3-(2-((3- -1-))-4-(2- -3-))

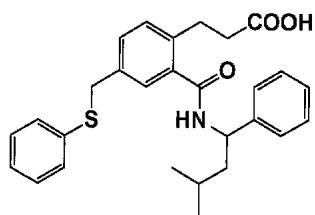


TLC: Rf 0.28(: =10:1);

NMR(300MHz, DMSO-d₆): 8.00(dd, J=4.8, 1.2Hz, 1H), 7.43-7.14(m, 11H), 5.13(s, 2H), 5.05(m, 1H), 2.89-2.76(m, 2H), 2.48-2.35(m, 2H), 2.39(s, 3H), 1.81-1.54(m, 2H), 1.44(m, 1H), 0.93(d, J=6.6Hz, 3H), 0.90(d, J=6.6Hz, 3H).

6(54)

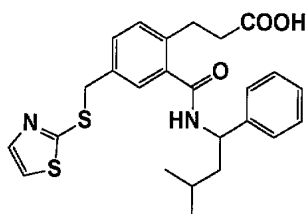
3-(2-((3- -1-))-4-)



TLC: Rf 0.34(: =10:1);

NMR(300MHz, DMSO-d₆): 8.75(d, J=8.7Hz, 1H), 7.38-7.13(m, 13H), 5.03(m, 1H), 4.24(s, 2H), 2.84-2.73(m, 2H), 2.47-2.37(m, 2H), 1.79-1.54(m, 2H), 1.42(m, 1H), 0.92(d, J=6.9Hz, 3H), 0.90(d, J=6.9Hz, 3H).6(55)

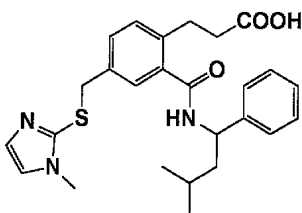
3-(2-((3- -1-))-4-(-2-))



TLC: Rf 0.34(: =10:1);

NMR(300MHz, DMSO-d₆): 8.77(d, J=8.7Hz, 1H), 7.72(d, J=3.3Hz, 1H), 7.66(d, J=3.3Hz, 1H), 7.39-7.18(m, 8H), 5.03(m, 1H), 4.48(s, 2H), 2.84-2.72(m, 2H), 2.48-2.38(m, 2H), 1.79-1.54(m, 2H), 1.42(m, 1H), 0.92(d, J=6.6Hz, 3H), 0.90(d, J=6.6Hz, 3H).6(56)

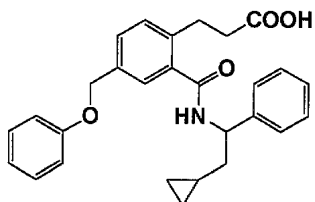
3-(2-((3- -1-))-4-(1- -2-))



TLC: Rf 0.28(: =10:1);

NMR(300MHz, DMSO-d₆): 8.70(d, J=8.1Hz, 1H), 7.38-7.14(m, 8H), 7.08(s, 1H), 6.93(t, J=1.2Hz, 1H), 5.02(m, 1H), 4.18(s, 2H), 3.37(s, 3H), 2.85-2.73(m, 2H), 2.48-2.37(m, 2H), 1.80-1.55(m, 2H), 1.43(m, 1H), 0.93(d, J=6.6Hz, 3H), 0.90(d, J=6.6Hz, 3H).6(57)

3-(2-((2- -1-))-4-)



[]

TLC: Rf 0.37(: =9:1);

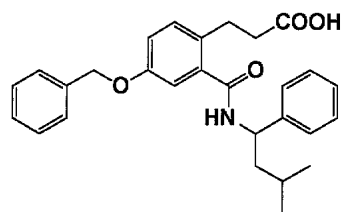
NMR(300MHz, CDCl₃): 7.74(m, 1H), 7.48-7.22(m, 9H), 7.00-6.93(m, 3H), 6.62(d, J=7.2Hz, 1H), 5.25(dt, J=7.2, 7.5Hz, 1H), 5.02(s, 2H), 3.03(t, J=7.2Hz, 2H), 2.74(t, J=7.2Hz, 2H), 1.88-1.72(m, 2H), 0.66(m, 1H), 0.55-0.40(m, 2H), 0.20-0.01(m, 2H).

[]

TLC: Rf 0.44(: =9:1).

6(58)

3-(2-((3- -1-))-4-

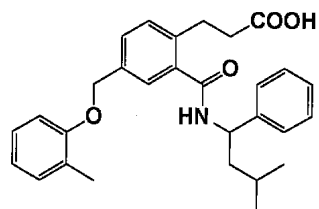


TLC: Rf 0.41(: =9:1);

NMR(300MHz, CDCl₃): 7.44-7.24(m, 10H), 7.18(d, J=9.0Hz, 1H), 7.00-6.92(m, 2H), 6.32(brd, J=8.4Hz, 1H), 5.26-5.16(m, 1H), 5.04(s, 2H), 3.00-2.90(m, 2H), 2.70(t, J=6.9Hz, 2H), 1.84-1.44(m, 3H), 0.98(d, J=6.6Hz, 6H).

6(59)

3-(2-((3- -1-))-4-(2-

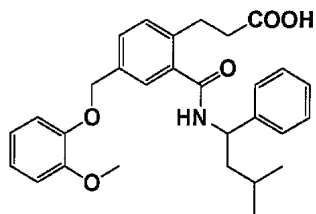


TLC: Rf 0.55(: =9:1);

NMR(300MHz, CDCl₃): 7.50-7.24(m, 8H), 7.22-7.10(m, 2H), 6.95-6.80(m, 2H), 6.34(brd, J=8.1Hz, 1H), 5.30-5.20(m, 1H), 5.05(s, 2H), 3.10-2.95(m, 2H), 2.74(t, J=7.8Hz, 2H), 2.27(s, 3H), 1.90-1.50(m, 3H), 1.00(d, J=6.6Hz, 3H), 0.99(d, J=6.6Hz, 3H).

6(60)

3-(2-((3- -1-))-4-(2-

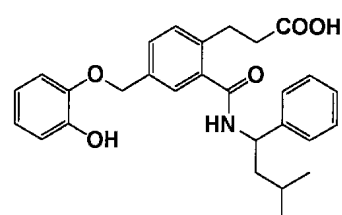


TLC: Rf 0.48(: =9:1);

NMR(300MHz, CDCl₃): 7.48-7.24(m, 8H), 7.00-6.84(m, 4H), 6.44(brd, J=8.4Hz, 1H), 5.30-5.15(m, 1H), 5.09(s, 2H), 3.86(s, 3H), 3.08-2.95(m, 2H), 2.72(t, J=7.8Hz, 2H), 1.90-1.50(m, 3H), 0.98(d, J=6.6Hz, 6H).

_____ 6(61)

3-(2-((3- -1-))-4-(2-))

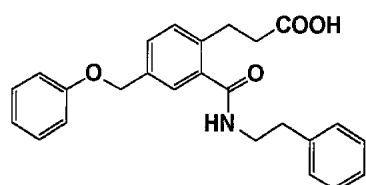


TLC: Rf 0.44(: =9:1);

NMR(300MHz, CDCl₃): 7.45-7.24(m, 8H), 7.00-6.80(m, 4H), 6.43(brd, J=8.1Hz, 1H), 5.80-5.50(brs, 1H), 5.30-5.20(m, 1H), 5.07(s, 2H), 3.10-2.97(m, 2H), 2.74(t, J=7.2Hz, 2H), 1.90-1.50(m, 3H), 0.99(d, J=6.6Hz, 6H).

_____ 6(62)

3-(2-((2-))-4-)

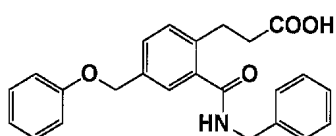


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 7.42-7.20(m, 10H), 7.00-6.90(m, 3H), 6.25(m, 1H), 4.98(s, 2H), 3.72(dt, J=6.9, 6.0Hz, 2H), 3.01(t, J=7.2Hz, 2H), 2.94(t, J=6.9Hz, 2H), 2.74(t, J=7.2Hz, 2H).

_____ 6(63)

3-(2- -4-)

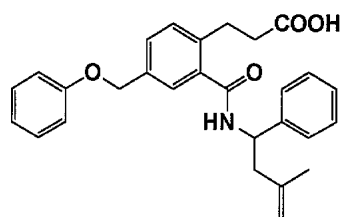


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 7.46-7.25(m, 10H), 6.99-6.92(m, 3H), 6.48(m, 1H), 5.00(s, 2H), 4.61(d, J=5.7Hz, 2H), 3.10(t, J=7.5Hz, 2H), 2.77(t, J=7.5Hz, 2H).

6(64)

3-(2-((3- -1- -3-))-4-)

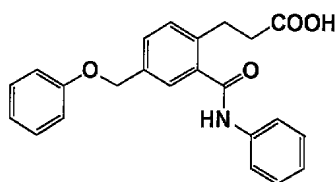


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 7.46-7.24(m, 10H), 7.04-6.92(m, 3H), 6.43(brd, J=7.5Hz, 1H), 5.42-5.32(m, 1H), 5.04(s, 2H), 4.86(brs, 1H), 4.79(brs, 1H), 3.04(t, J=7.2Hz, 2H), 2.74(t, J=7.2Hz, 2H), 2.64-2.50(m, 2H), 1.81(s, 3H).

6(65)

3-(2- -4-)

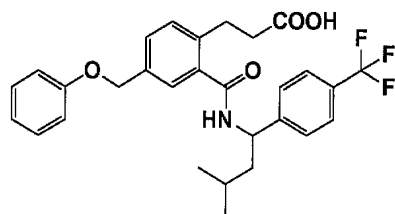


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃ + CD₃OD): 7.70-7.61(m, 3H), 7.46(m, 1H), 7.39-7.27(m, 5H), 7.14(m, 1H), 7.00-6.95(m, 3H), 5.06(s, 2H), 3.11(t, J=6.9Hz, 2H), 2.83(t, J=6.9Hz, 2H).

6(66)

3-(2-((3- -1-(4-)))-4-)

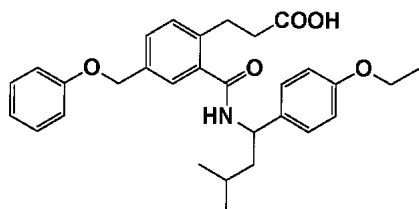


TLC: Rf 0.39(: =19:1);

NMR(300MHz, CDCl₃): 7.61(d, J=8.1Hz, 2H), 7.51-7.40(m, 4H), 7.35-7.25(m, 3H), 7.02-6.93(m, 3H), 6.54(d, J=8.1Hz, 1H), 5.26(m, 1H), 5.03(s, 2H), 3.01(t, J=7.2Hz, 2H), 2.76-2.68(m, 2H), 1.84-1.55(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(67)

3-(2-((3- -1-(4-)))-4-)

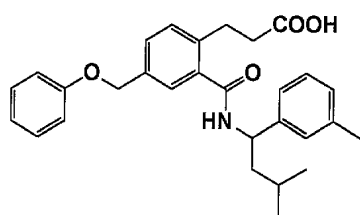


TLC: Rf 0.40(: =19:1);

NMR(300MHz, CDCl₃): 7.45-7.37(m, 2H), 7.34-7.24(m, 5H), 7.02-6.92(m, 3H), 6.87(d, J=8.4Hz, 2H), 6.31(d, J=8.4Hz, 1H), 5.18(m, 1H), 5.01(s, 2H), 4.02(q, J=6.9Hz, 2H), 3.06-2.98(m, 2H), 2.76-2.68(m, 2H), 1.85-1.50(m, 3H), 1.40(t, J=6.9Hz, 3H), 0.97(d, J=6.6Hz, 6H).

6(68)

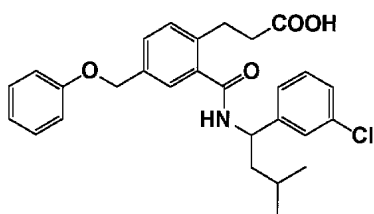
3-(2-((3- -1-(3-))))-4-



TLC: Rf 0.40(: =9:1).

6(69)

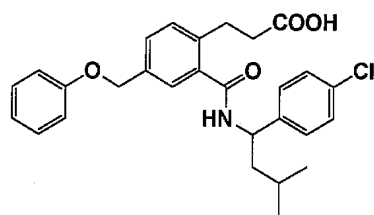
3-(2-((3- -1-(3-))))-4-



TLC: Rf 0.40(: =9:1).

6(70)

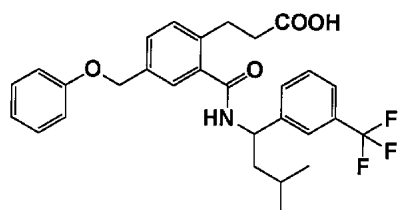
3-(2-((3- -1-(4-))))-4-



TLC: Rf 0.40(: =9:1).

6(71)

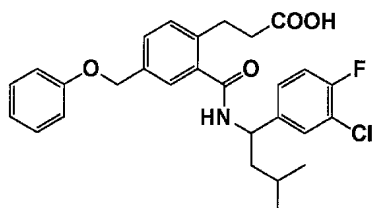
3-(2-((3- -1-(3-))))-4-



TLC: Rf 0.40(: =9:1).

6(72)

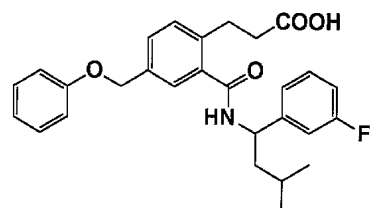
3-(2-((3- -1-(3- -4-)))-4-)



TLC: Rf 0.40(: =9:1).

6(73)

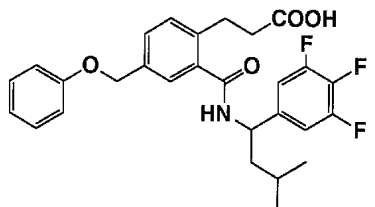
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(74)

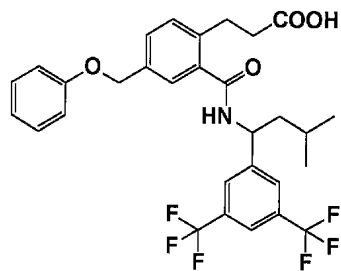
3-(2-((3- -1-(3,4,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(75)

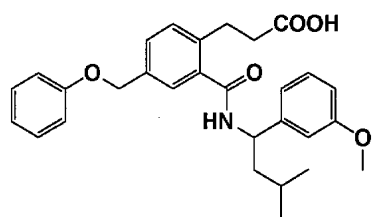
3-(2-((3- -1-(3,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(76)

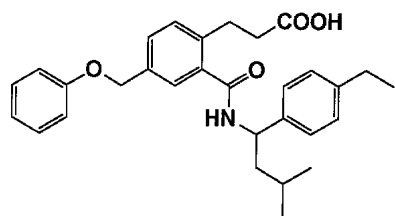
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(77)

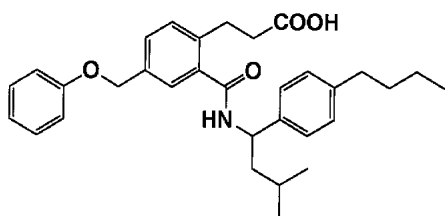
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(78)

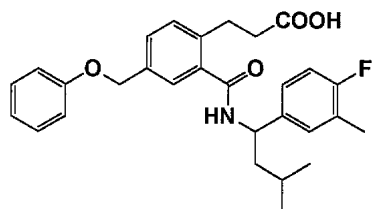
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(79)

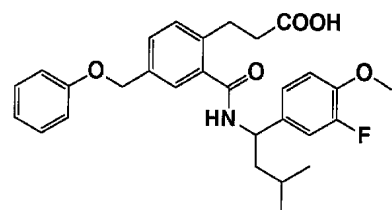
3-(2-((3- -1-(4- -3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(80)

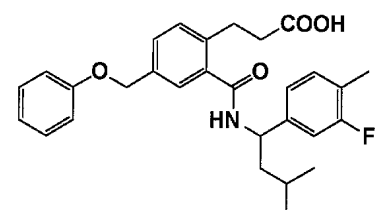
3-(2-((3- -1-(3- -4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(81)

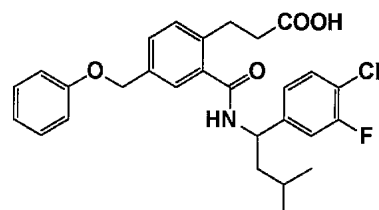
3-(2-((3- -1-(3- -4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(82)

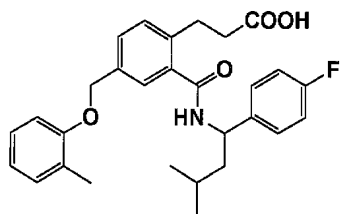
3-(2-((3- -1-(4- -3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(83)

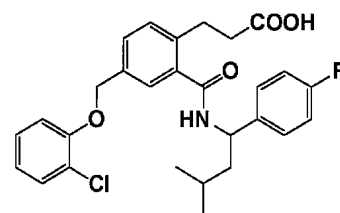
3-(2-((3- -1-(4-)))-4-(2-))



TLC: Rf 0.69(: =10:1).

6(84)

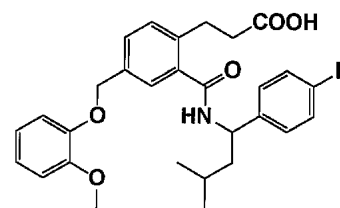
3-(2-((3- -1-(4-)))-4-(2-))



TLC: Rf 0.67(: =10:1).

6(85)

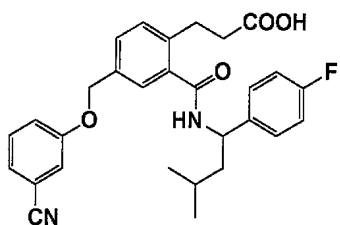
3-(2-((3- -1-(4-)))-4-(2-))



TLC: Rf 0.66(: =10:1).

6(86)

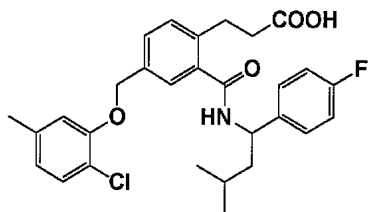
3-(2-((3- -1-(4-)))-4-(3-))



TLC: Rf 0.64(: =10:1).

6(87)

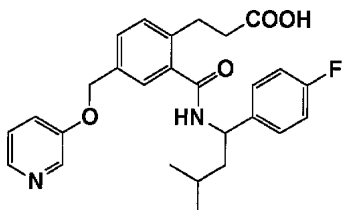
3-(2-((3- -1-(4-)))-4-(2- -5-))



TLC: Rf 0.66(: =10:1).

6(88)

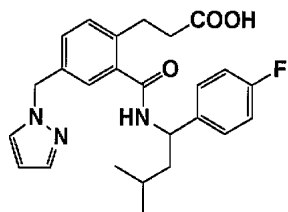
3-(2-((3- -1-(4-))))-4-(-3-))



TLC: Rf 0.52(: =10:1).

6(89)

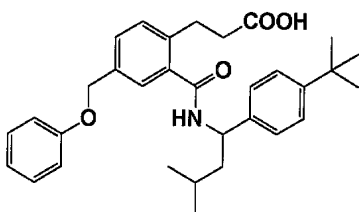
3-(2-((3- -1-(4-))))-4-(-1-))



TLC: Rf 0.60(: =10:1).

6(90)

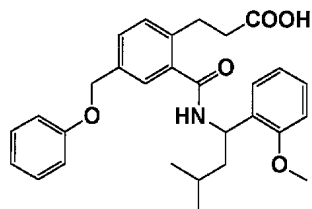
3-(2-((3- -1-(4-t-))))-4-)



TLC: Rf 0.72(: =10:1).

6(91)

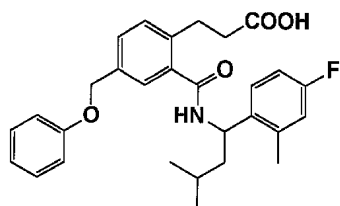
3-(2-((3- -1-(2-))))-4-)



TLC: Rf 0.68(: =10:1).

6(92)

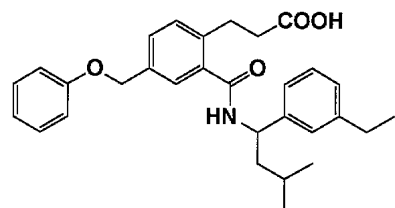
3-(2-((3- -1-(4- -2-)))-4-)



TLC: Rf 0.68(: =10:1).

6(93)

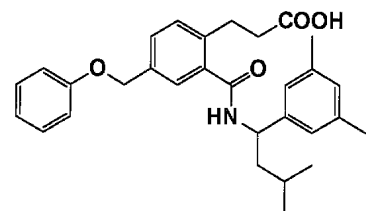
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(94)

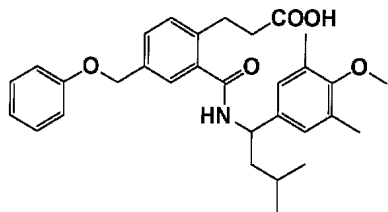
3-(2-((3- -1-(3,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(95)

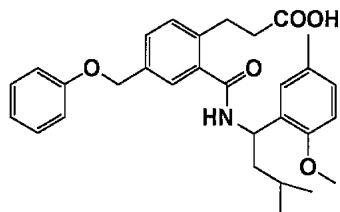
3-(2-((3- -1-(3,5- -4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(96)

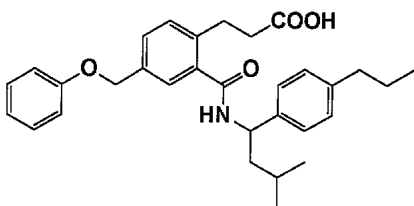
3-(2-((3- -1-(5- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(97)

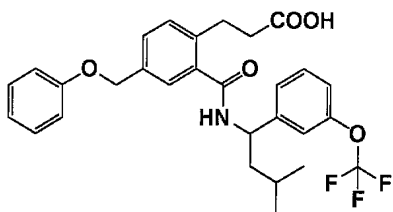
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(98)

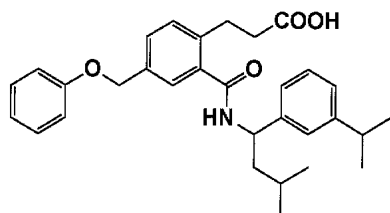
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(99)

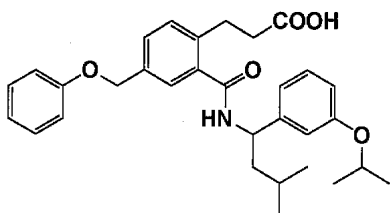
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(100)

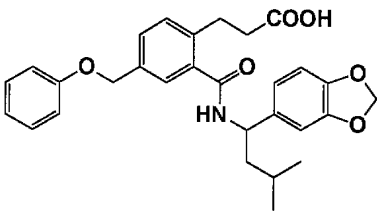
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(101)

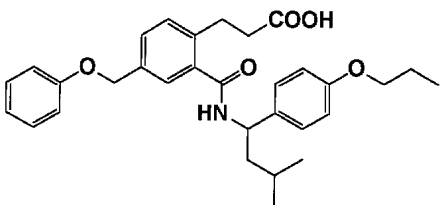
3-(2-((3- -1-(1,3- -5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(102)

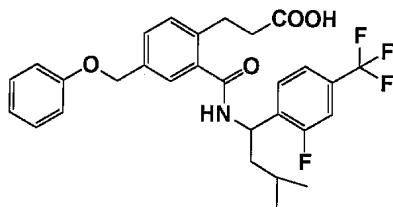
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(103)

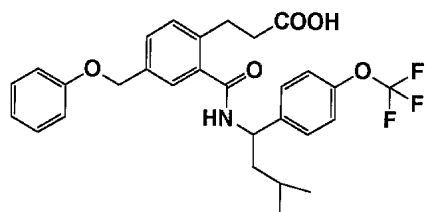
3-(2-((3- -1-(2- -4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(104)

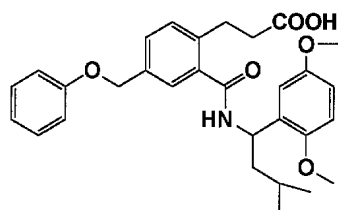
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(105)

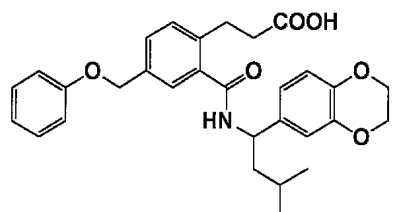
3-(2-((3- -1-(2,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(106)

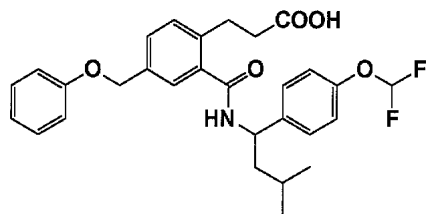
3-(2-((3- -1-(1,4- -6-)))-4-)



TLC: Rf 0.53(: =9:1).

6(107)

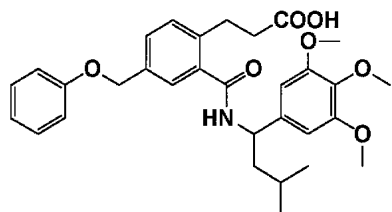
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(108)

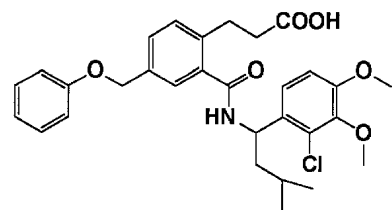
3-(2-((3- -1-(3,4,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(109)

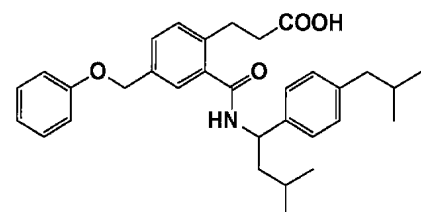
3-(2-((3- -1-(2- -3,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(110)

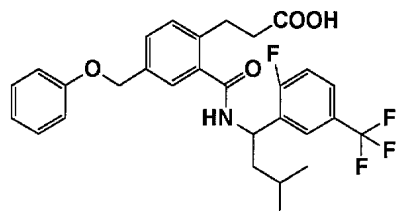
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(111)

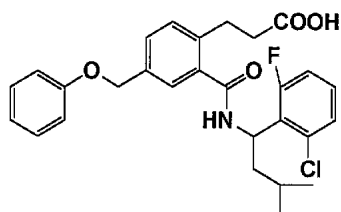
3-(2-((3- -1-(2- -5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(112)

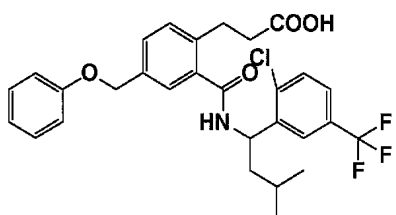
3-(2-((3- -1-(2- -6-)))-4-)



TLC: Rf 0.53(: =9:1).

6(113)

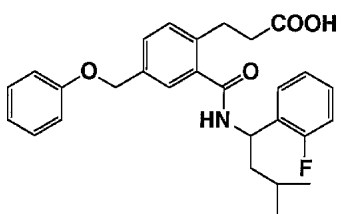
3-(2-((3- -1-(2- -5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(114)

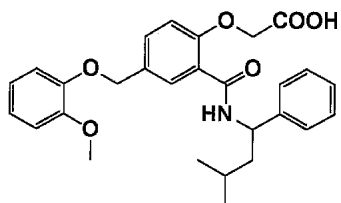
3-(2-((3- -1-(2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(115)

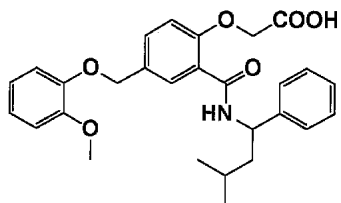
2-(2-((3- -1-))-4-(2-))



TLC: Rf 0.50(: =5:1).

6(116)

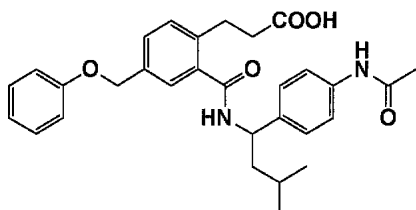
2-(2-((3- -1-))-4-(2-))



TLC: Rf 0.40(: =5:1).

6(117)

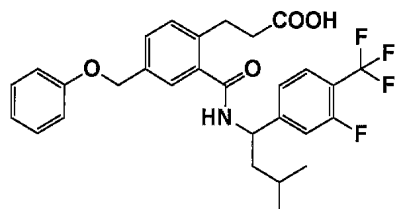
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.10(: =9:1).

6(118)

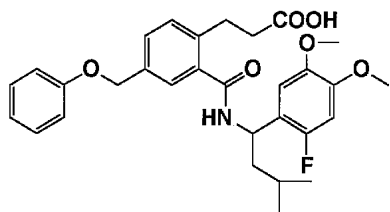
3-(2-((3- -1-(3- -4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(119)

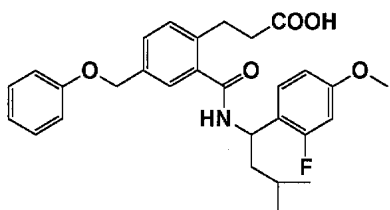
3-(2-((3- -1-(4,5- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(120)

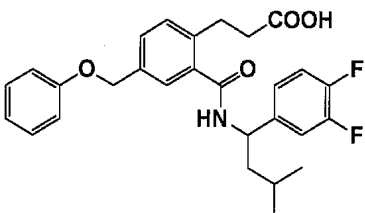
3-(2-((3- -1-(2- -4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(121)

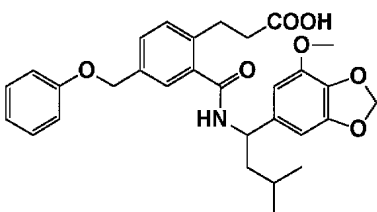
3-(2-((3- -1-(3,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(122)

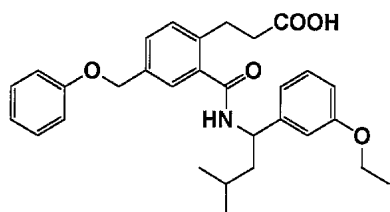
3-(2-((3- -1-(4- -1,3- -6-)))-4-)



TLC: Rf 0.53(: =9:1).

6(123)

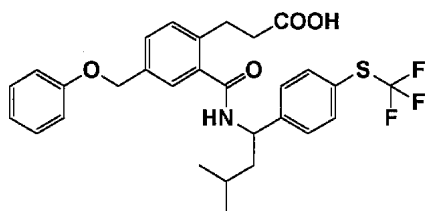
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.59(: =10:1).

6(124)

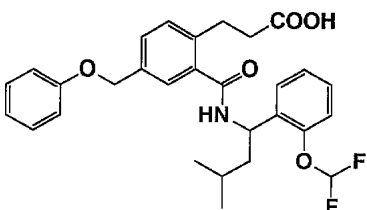
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.42(: =10:1).

6(125)

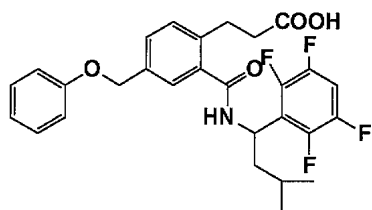
3-(2-((3- -1-(2-)))-4-)



TLC: Rf 0.38(: =10:1).

6(126)

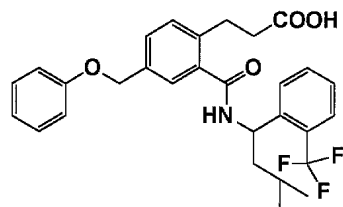
3-(2-((3- -1-(2,3,5,6-)))-4-)



TLC: Rf 0.53(: =9:1).

6(127)

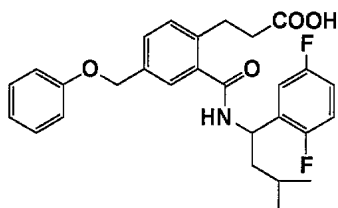
3-(2-((3- -1-(2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(128)

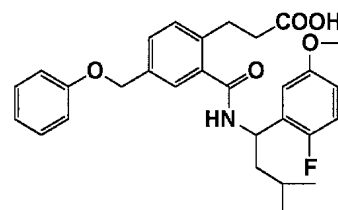
3-(2-((3- -1-(2,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(129)

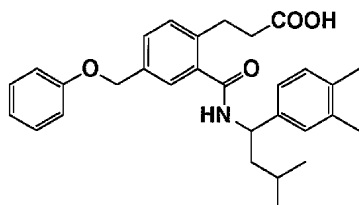
3-(2-((3- -1-(2- -5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(130)

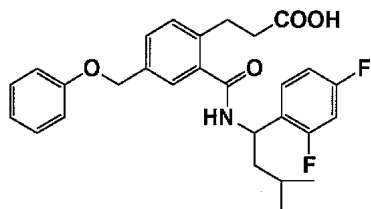
3-(2-((3- -1-(3,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(131)

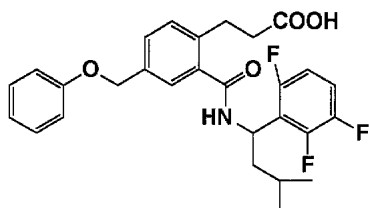
3-(2-((3- -1-(2,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(132)

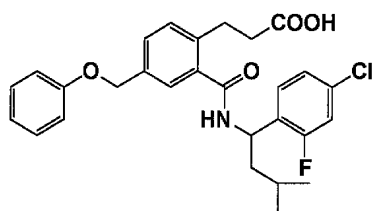
3-(2-((3- -1-(2,3,6-)))-4-)



TLC: Rf 0.53(: =9:1).

6(133)

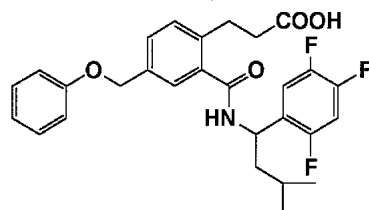
3-(2-((3- -1-(4- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(134)

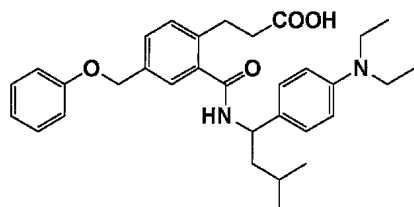
3-(2-((3- -1-(2,4,5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(135)

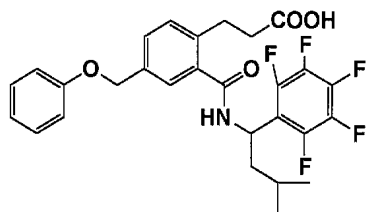
3-(2-((3- -1-(2,3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(140)

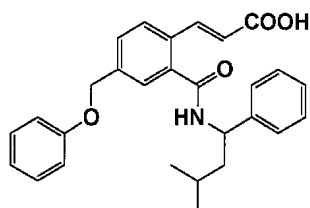
3-(2-((3- -1-(2,3,4,5,6-)))-4-)



TLC: Rf 0.53(: =9:1).

6(141)

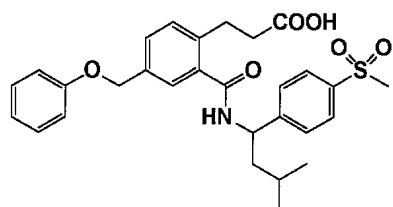
(2E)-3-(2-((3- -1-))-4-)-2-



TLC: Rf 0.55(: =10:1).

6(142)

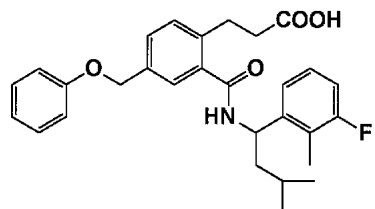
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(143)

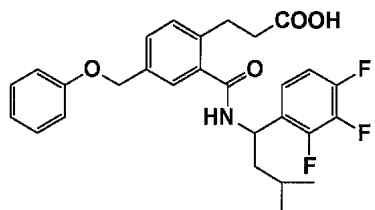
3-(2-((3- -1-(3- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(144)

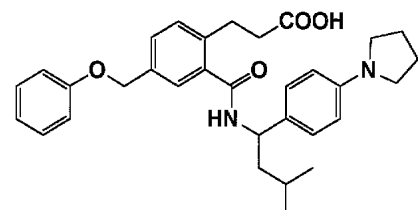
3-(2-((3- -1-(2,3,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(145)

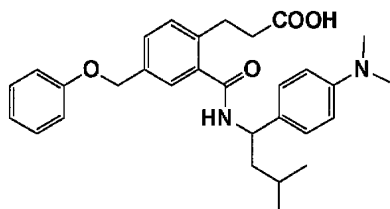
3-(2-((3- -1-(4-(-1-))))-4-)



TLC: Rf 0.53(: =9:1).

6(146)

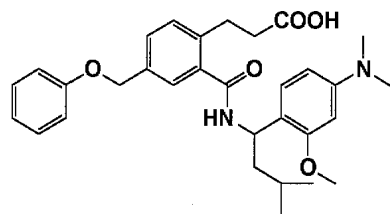
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(147)

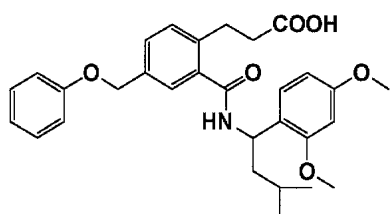
3-(2-((3- -1-(4- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(148)

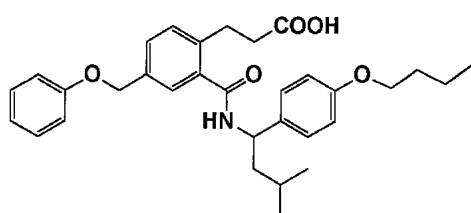
3-(2-((3- -1-(2,4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(149)

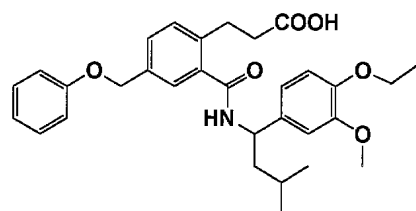
3-(2-((3- -1-(4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(150)

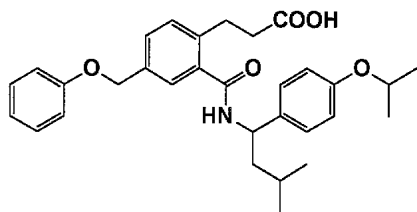
3-(2-((3- -1-(4- -3-))))-4-)



TLC: Rf 0.53(: =9:1).

6(151)

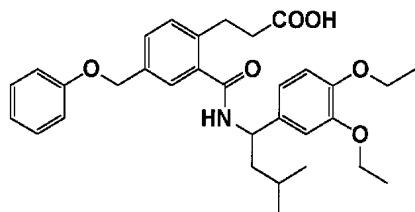
3-(2-((3- -1-(4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(152)

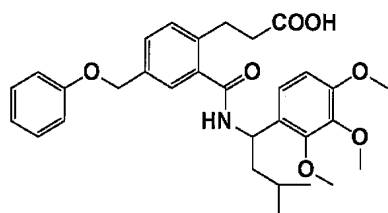
3-(2-((3- -1-(3,4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(153)

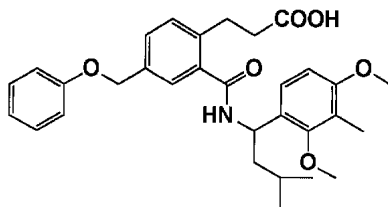
3-(2-((3- -1-(2,3,4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(154)

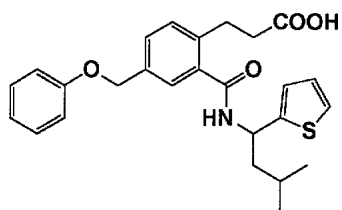
3-(2-((3- -1-(2,4- -3-))))-4-)



TLC: Rf 0.53(: =9:1).

6(155)

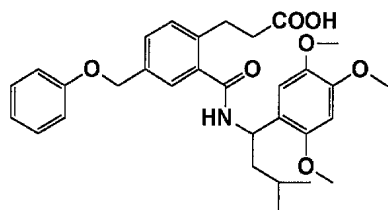
3-(2-((3- -1-(-2-))))-4-)



TLC: Rf 0.53(: =9:1).

6(156)

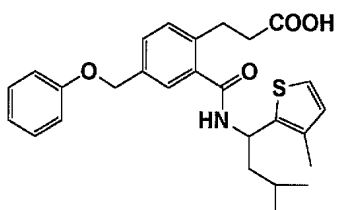
3-(2-((3- -1-(2,4,5-))) -4-)



TLC: Rf 0.53(: =9:1).

6(157)

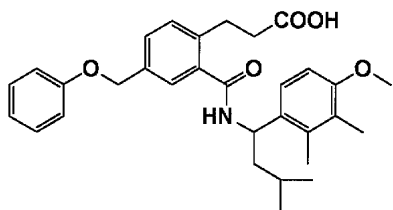
3-(2-((3- -1-(3- -2-))) -4-)



TLC: Rf 0.53(: =9:1).

6(158)

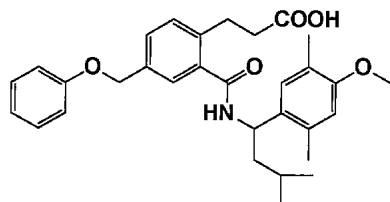
3-(2-((3- -1-(2,3- -4-))) -4-)



TLC: Rf 0.53(: =9:1).

6(159)

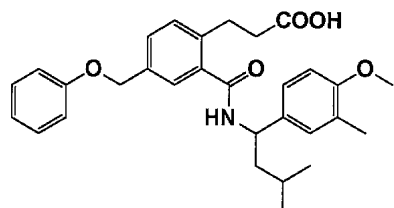
3-(2-((3- -1-(2,5- -4-))) -4-)



TLC: Rf 0.53(: =9:1).

6(160)

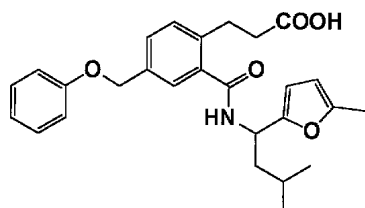
3-(2-((3- -1-(4- -3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(161)

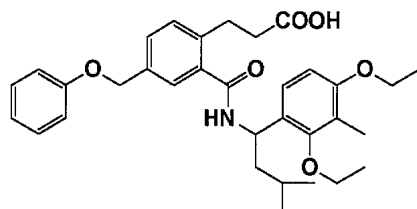
3-(2-((3- -1-(5- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(162)

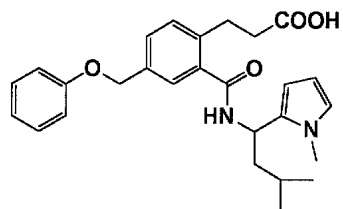
3-(2-((3- -1-(2,4- -3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(163)

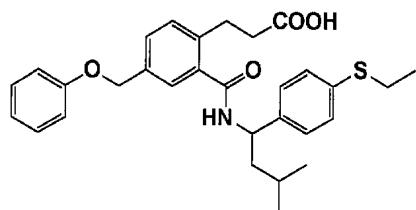
3-(2-((3- -1-(1- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(164)

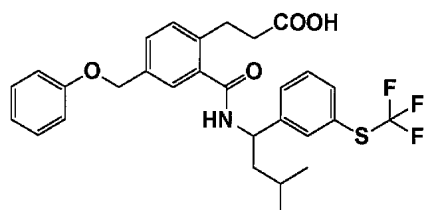
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(165)

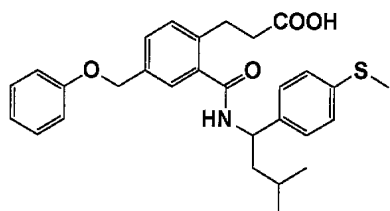
3-(2-((3- -1-(3-)))-4-)



TLC: Rf 0.53(: =9:1).

6(166)

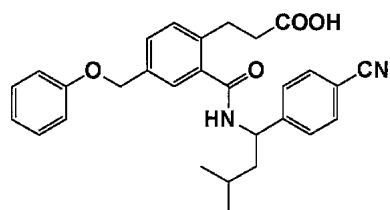
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(167)

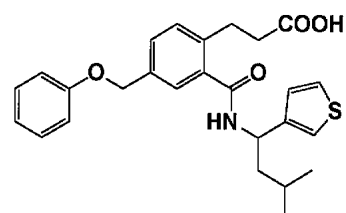
3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.40(: 10:1).

6(168)

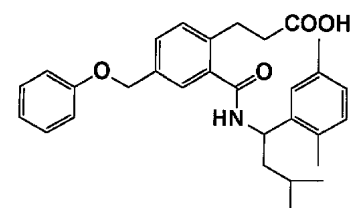
3-(2-((3- -1-(-3-))))-4-)



TLC: Rf 0.53(: =9:1).

6(169)

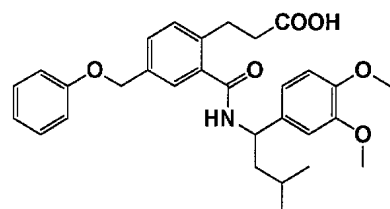
3-(2-((3- -1-(2,5-))))-4-)



TLC: Rf 0.53(: =9:1).

6(170)

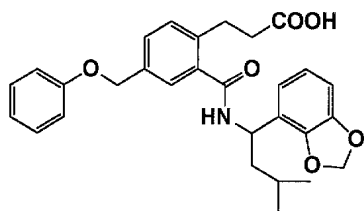
3-(2-((3- -1-(3,4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(171)

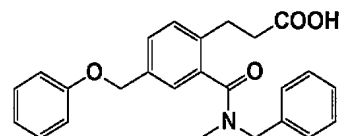
3-(2-((3- -1-(1,3- -4-))))-4-)



TLC: Rf 0.53(: =9:1).

6(172)

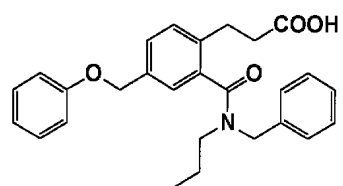
3-(2-(N- -N-)-4-)



TLC: Rf 0.45(: =10:1).

6(173)

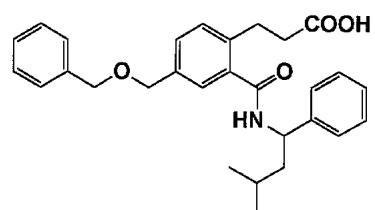
3-(2-(N- -N-)-4-)



TLC: Rf 0.50(: =10:1).

6(174)

3-(2-((3- -1-))-4-)

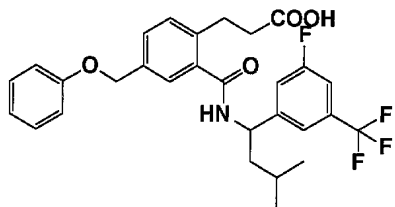


TLC: Rf 0.41(: =19:1);

NMR(300MHz, CDCl₃): 7.42-7.19(m, 13H), 6.36(d, J=8.7Hz, 1H), 5.24(m, 1H), 4.57(s, 2H), 4.52(s, 2H), 3.04-2.96(m, 2H), 2.75-2.66(m, 2H), 1.86-1.52(m, 3H), 0.99(d, J=6.5Hz, 3H), 0.98(d, J=6.5Hz, 3H).

6(175)

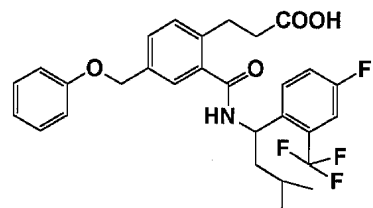
3-(2-((3- -1-(3- -5-)))-4-)



TLC: Rf 0.53(: =9:1).

6(176)

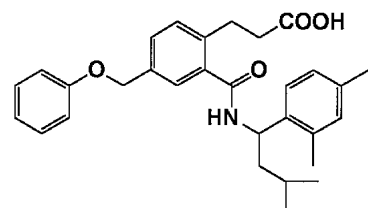
3-(2-((3- -1-(4- -2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(177)

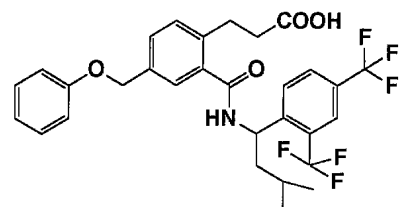
3-(2-((3- -1-(2,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(178)

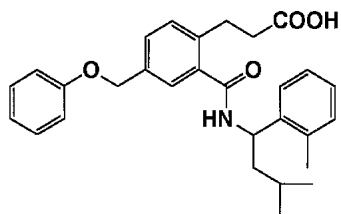
3-(2-((3- -1-(2,4-)))-4-)



TLC: Rf 0.53(: =9:1).

6(179)

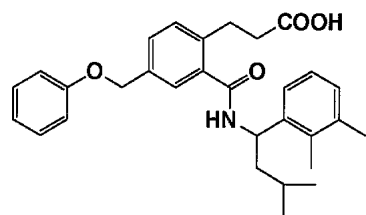
3-(2-((3- -1-(2-)))-4-)



TLC: Rf 0.53(: =9:1).

6(180)

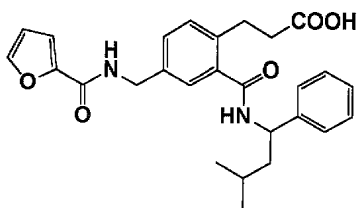
3-(2-((3- -1-(2,3-))))-4-)



TLC: Rf 0.53(: =9:1).

6(181)

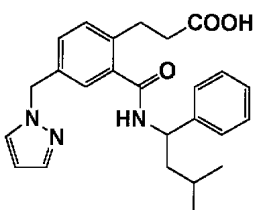
3-(2-((3- -1-)))-4-(-2-))



TLC: Rf 0.29(: =10:1).

6(182)

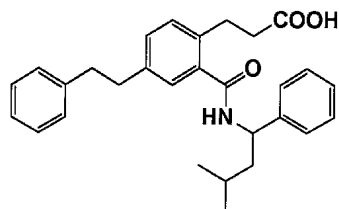
3-(2-((3- -1-)))-4-(-1-))



TLC: Rf 0.36(: =9:1).

6(183)

3-(2-((3- -1-)))-4-(2-))

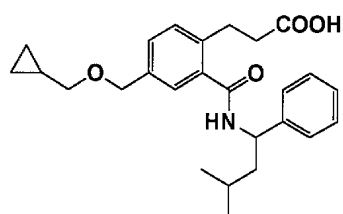


TLC: Rf 0.49(: =19:1);

NMR(300MHz, CDCl₃): 7.40-7.23(m, 7H), 7.22-7.15(m, 3H), 7.13-7.07(m, 2H), 6.88(s, 1H), 6.05(d, J=8.7Hz, 1H), 5.20(m, 1H), 3.01-2.92(m, 2H), 2.88(s, 4H), 2.74-2.66(m, 2H), 1.82-1.59(m, 3H), 0.99(d, J=6.6Hz, 3H), 0.98(d, J=6.6Hz, 3H).

6(184)

3-(2-((3- -1-))-4-

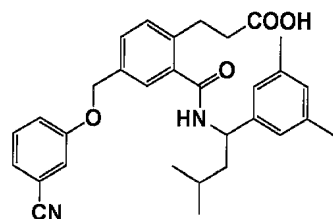


TLC: Rf 0.45();

NMR(300MHz, DMSO-d₆): 12.06(s, 1H), 8.78(d, J=8.4Hz, 1H), 7.38-7.18(m, 8H), 5.09-5.01(m, 1H), 4.45(s, 2H), 3.28(d, J=6.6Hz, 2H), 2.85-2.79(m, 2H), 2.46-2.41(m, 2H), 1.80-1.58(m, 2H), 1.48-1.39(m, 1H), 1.80-0.98(m, 1H), 0.94-0.89(m, 6H), 0.49-0.43(m, 2H), 0.19-0.14(m, 2H).

6(185)

3-(2-((3- -1-(3,5-)))-4-(3-

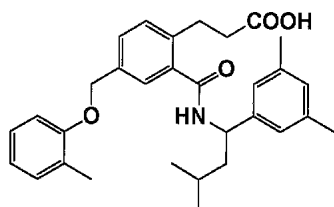


TLC: Rf 0.58(: =10:1);

NMR(300MHz, CDCl₃): 7.48-7.06(m, 7H), 6.95(s, 2H), 6.90(s, 1H), 6.42(m, 1H), 5.16(m, 1H), 5.00(s, 2H), 3.10-2.92(m, 2H), 2.78-2.62(m, 2H), 2.29(s, 6H), 1.86-1.48(m, 3H), 0.97(d, J=6.3Hz, 6H).

6(186)

3-(2-((3- -1-(3,5-)))-4-(2-

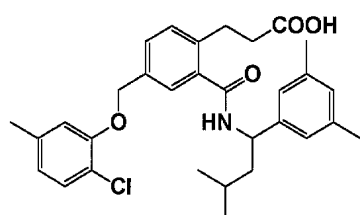


TLC: Rf 0.62(: =10:1);

NMR(300MHz, CDCl₃): 7.46-7.39(m, 2H), 7.31-7.22(m, 1H), 7.20-7.11(m, 2H), 6.95(s, 2H), 6.93-6.82(m, 3H), 6.26(d, J=8.4Hz, 1H), 5.17(m, 1H), 5.04(s, 2H), 3.14-2.99(m, 2H), 2.78-2.67(m, 2H), 2.31(s, 6H), 2.27(s, 3H), 1.85-1.52(m, 3H), 0.99(d, J=6.6Hz, 3H), 0.98(d, J=6.6Hz, 3H).

6(187)

3-(2-((3- -1-(3,5-))))-4-(2- -5-))

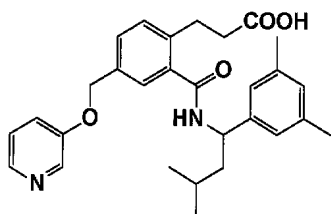


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 7.53(d, J=1.8Hz, 1H), 7.43(dd, J=7.5, 1.8Hz, 1H), 7.33-7.22(m, 2H), 6.96(s, 2H), 6.91(s, 1H), 6.79(s, 1H), 6.75(m, 1H), 6.30(d, J=8.4Hz, 1H), 5.17(m, 1H), 5.09(s, 2H), 3.12-2.98(m, 2H), 2.78-2.69(m, 2H), 2.31(s, 9H), 1.86-1.55(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(188)

3-(2-((3- -1-(3,5-))))-4-(-3-))

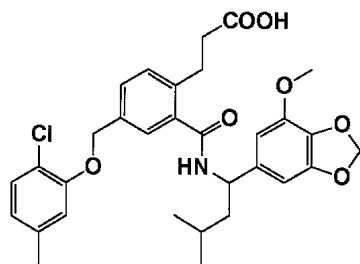


TLC: Rf 0.37(: =10:1);

NMR(300MHz, DMSO-d₆): 8.79(d, J=8.7Hz, 1H), 8.36(d, J=2.7Hz, 1H), 8.19(m, 1H), 7.50-7.41(m, 2H), 7.39-7.29(m, 3H), 6.97(s, 2H), 6.86(s, 1H), 5.19(s, 2H), 4.99(m, 1H), 2.92-2.80(m, 2H), 2.55-2.42(m, 2H), 2.26(s, 6H), 1.82-1.55(m, 2H), 1.42(m, 1H), 0.93(t, J=7.3Hz, 6H).

6(189)

3-(2-((3- -1-(4- -1,3- -6-))))-4-(2- -5-))

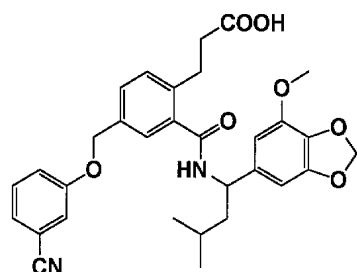


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.46-7.42(m, 2H), 7.31-7.11(m, 2H), 6.94-6.84(m, 2H), 6.55(d, J=9.9Hz, 2H), 6.32(d, J=8.4Hz, 1H), 5.95(s, 2H), 5.15(m, 1H), 5.05(s, 2H), 3.91(s, 3H), 3.03(t, J=7.2Hz, 2H), 2.75(t, J=7.2Hz, 2H), 2.27(s, 3H), 1.85-1.50(m, 3H), 0.98(d, J=6.0Hz, 6H).

6(190)

3-(2-((3- -1-(4- -1,3- -6-)))-4-(3-))

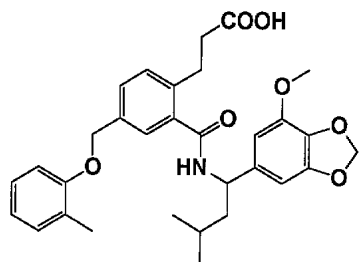


TLC: Rf 0.48(: =9:1);

NMR(300MHz, CDCl₃): 7.46-7.12(m, 7H), 6.56(dd, J=10.5, 1.5Hz, 2H), 6.46(d, J=8.4Hz, 1H), 5.94(s, 2H), 5.13(m, 1H), 5.03(s, 2H), 3.90(s, 3H), 3.02(t, J=7.2Hz, 2H), 2.74(t, J=7.2Hz, 2H), 1.85-1.55(m, 3H), 0.97(d, J=6.6Hz, 6H).

6(191)

3-(2-((3- -1-(4- -1,3- -6-)))-4-(2-))

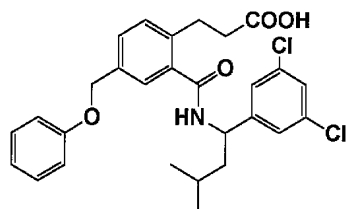


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.51(s, 1H), 7.44(d, J=7.8Hz, 1H), 7.30-7.23(m, 3H), 6.79(s, 1H), 6.75(d, J=8.4Hz, 1H), 6.55(d, J=7.2Hz, 2H), 6.36(d, J=8.7Hz, 1H), 5.95(s, 2H), 5.13(m, 1H), 5.09(s, 2H), 3.91(s, 3H), 3.04(t, J=7.2Hz, 2H), 2.74(t, J=7.2Hz, 2H), 2.27(s, 3H), 1.82-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(192)

3-(2-((3- -1-(3,5-)))-4-)

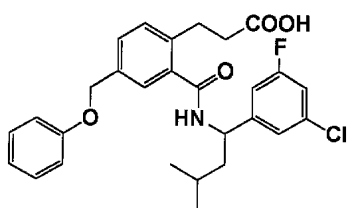


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.48-7.42(m, 2H), 7.35-7.24(m, 6H), 7.02-6.94(m, 3H), 6.58(d, J=8.4Hz, 1H), 5.20-5.10(m, 1H), 5.05(s, 2H), 3.05-2.97(m, 2H), 2.85-2.70(m, 2H), 1.80-1.40(m, 3H), 0.99(d, J=5.7Hz, 3H), 0.98(d, J=5.7Hz, 3H).

6(193)

3-(2-((3- -1-(3- -5-)))-4-))

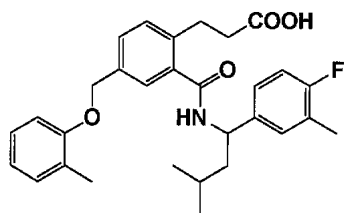


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.50-7.40(m, 2H), 7.35-7.15(m, 6H), 7.05-6.94(m, 3H), 6.80-6.70(m, 1H), 6.00-5.85(m, 1H), 5.04(s, 2H), 3.10-3.00(m, 2H), 2.80-2.70(m, 2H), 2.00-1.40(m, 3H), 1.02(d, J=6.0Hz, 3H), 1.01(d, J=6.0Hz, 3H).

6(194)

3-(2-((3- -1-(4- -3-)))-4-(2-)))

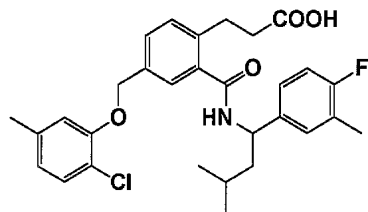


TLC: Rf 0.23(: =1:1);

NMR(300MHz, CDCl₃): 7.45-7.42(m, 2H), 7.28(m, 1H), 7.20-7.10(m, 4H), 6.97(m, 1H), 6.92-6.84(m, 2H), 6.30(brd, J=8.7Hz, 1H), 5.17(m, 1H), 5.05(s, 2H), 3.08-2.95(m, 2H), 2.75-2.71(m, 2H), 2.27(s, 6H), 1.82-1.55(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(195)

3-(2-((3- -1-(4- -3-)))-4-(2- -5-)))

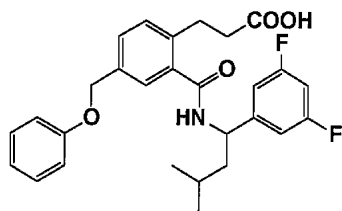


TLC: Rf 0.23(: =1:1);

NMR(300MHz, CDCl₃): 7.52(brs, 1H), 7.43(m, 1H), 7.30-7.24(m, 2H), 7.18-7.11(m, 2H), 6.97(m, 1H), 6.79(brs, 1H), 6.75(brd, J=7.8Hz, 1H), 6.34(brd, J=8.1Hz, 1H), 5.16(m, 1H), 5.09(s, 2H), 3.11-2.96(m, 2H), 2.75-2.70(m, 2H), 2.32(s, 3H), 2.27(d, J=1.5Hz, 3H), 1.87-1.54(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(196)

3-(2-((3- -1-(3,5-))))-4-)

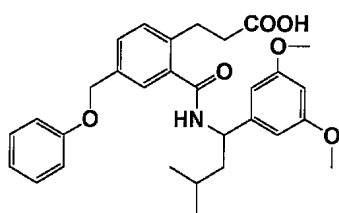


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.48-7.40(m, 2H), 7.35-7.24(m, 3H), 7.02-6.94(m, 3H), 6.94-6.84(m, 2H), 6.76-6.66(m, 1H), 6.54(brd, J=8.4Hz, 1H), 5.23-5.13(m, 1H), 5.04(s, 2H), 3.02(t, J=7.2Hz, 2H), 2.80-2.70(m, 2H), 1.80-1.40(m, 3H), 0.99(d, J=6.0Hz, 3H), 0.98(d, J=6.0Hz, 3H).

6(197)

3-(2-((3- -1-(3,5-))))-4-)

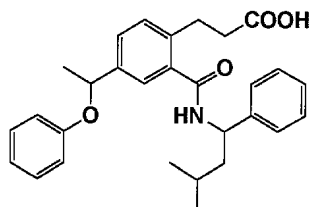


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.47-7.40(m, 2H), 7.34-7.20(m, 3H), 7.02-6.90(m, 3H), 6.51(d, J=2.1Hz, 2H), 6.40-6.35(m, 2H), 5.20-5.10(m, 1H), 5.03(s, 2H), 3.79(s, 6H), 3.08-3.00(m, 2H), 2.76(t, J=7.5Hz, 2H), 1.80-1.50(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(198)

3-(2-((3- -1-)))-4-(1-))

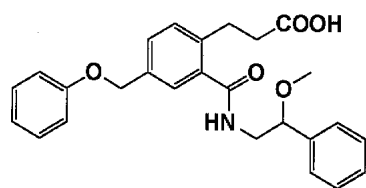


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.18(m, 10H), 6.94-6.82(m, 3H), 6.25(d, J=8.4Hz, 1H), 5.30(q, J=6.6Hz, 1H), 5.22(m, 1H), 2.96(m, 2H), 2.70(m, 2H), 1.80-1.45(m, 3H), 1.62(m, 3H), 1.00-0.95(m, 6H).

6(199)

3-(2-((2- -2-))-4-)

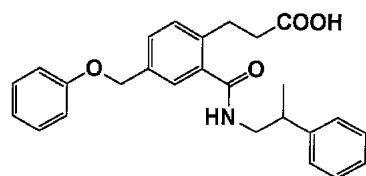


TLC: Rf 0.39(: =9:1);

NMR(300MHz, CDCl₃): 7.46-7.27(m, 10H), 7.02-6.95(m, 3H), 6.51(m, 1H), 5.03(s, 2H), 4.41(dd, J=8.4, 3.9Hz, 1H), 3.87(ddd, J=13.5, 6.9, 3.9Hz, 1H), 3.46(ddd, J=13.5, 8.4, 4.5Hz, 1H), 3.28(s, 3H), 3.07(t, J=7.5Hz, 2H), 2.76(t, J=7.5Hz, 2H).

6(200)

3-(2-((2-))-4-)

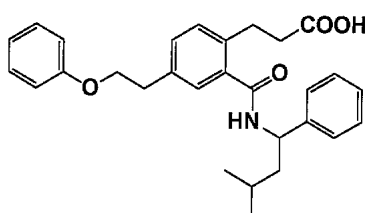


TLC: Rf 0.34(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.20(m, 10H), 7.02-6.91(m, 3H), 6.03(dd, J=6.0, 5.7Hz, 1H), 4.96(s, 2H), 3.80(ddd, J=13.5, 6.0, 6.0Hz, 1H), 3.48(ddd, J=13.5, 9.3, 5.7Hz, 1H), 3.10(m, 1H), 2.95(t, J=7.5Hz, 2H), 2.71(t, J=7.5Hz, 2H), 1.34(d, J=6.9Hz, 3H).

6(201)

3-(2-((3- -1-))-4-(2-))

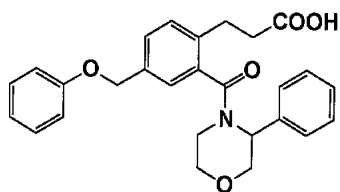


TLC: Rf 0.38(: =9:1);

NMR(300MHz, CDCl₃): 7.38-7.18(m, 10H), 6.98-6.84(m, 3H), 6.30(d, J=8.1Hz, 1H), 5.23(dt, J=8.1, 6.3Hz, 1H), 4.16(t, J=6.9Hz, 2H), 3.07(t, J=6.9Hz, 2H), 2.99(dt, J=3.3, 6.9Hz, 2H), 2.72(t, J=6.9Hz, 2H), 1.82-1.50(m, 3H), 0.98(d, J=6.6Hz, 6H).

6(202)

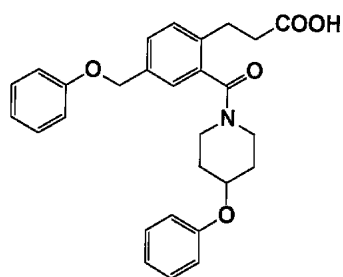
3-(2-(3- -4-)-4-)



TLC: Rf 0.31(: =10:1).

6(203)

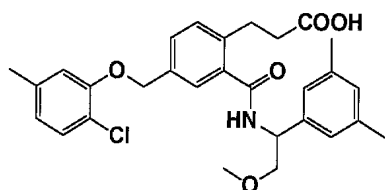
3-(2-(4- -1-)-4-)



TLC: Rf 0.38(: =10:1).

6(204)

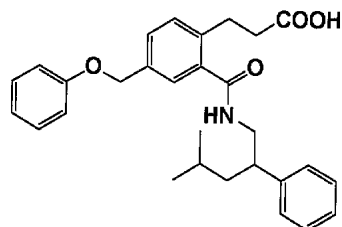
3-(2-((2- -1-(3,5-))))-4-(2- -5-))



TLC: Rf 0.39(: =1:1).

6(205)

3-(2-((4- -2-)))-4-)

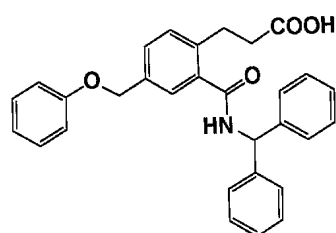


TLC: Rf 0.44(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.15(m, 10H), 7.10-6.90(m, 3H), 5.92(t, J=5.4Hz, 1H), 4.95(s, 2H), 3.86(dd d, J=13.5, 5.4, 5.4Hz, 1H), 3.40(ddd, J=13.5, 9.9, 5.4Hz, 1H), 3.01(m, 1H), 2.94(t, J=7.2Hz, 2H), 2.71(t, J=7.2 Hz, 2H), 1.65-1.40(m, 3H), 0.89(d, J=6.6Hz, 3H), 0.87(d, J=6.6Hz, 3H).

6(206)

3-(2- -4-)

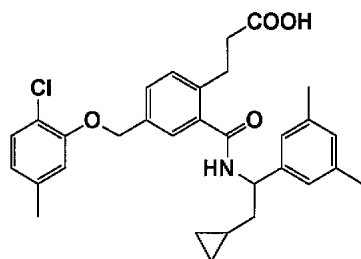


TLC: Rf 0.42(: =9:1);

NMR(300MHz, DMSO-d₆): 9.39(d, J=8.7Hz, 1H), 7.43-7.20(m, 15H), 7.03-6.90(m, 3H), 6.36(d, J=8.7Hz, 1H), 5.07(s, 2H), 2.85(t, J=7.8Hz, 2H), 2.44(m, 2H).

6(207)

3-(2-((2- -1-(3,5-))) -4-(2- -5-))

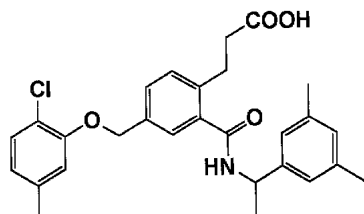


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 7.57(s, 1H), 7.44(d, J=8.1Hz, 1H), 7.32-7.24(m, 2H), 6.96(s, 2H), 6.91(s, 1H), 6.79(s, 1H), 6.74(d, J=8.1Hz, 1H), 6.45(d, J=8.1Hz, 1H), 5.18(m, 1H), 5.10(s, 2H), 3.07(m, 2H), 2.76(t, J=7.2Hz, 2H), 2.31(s, 9H), 1.76(m, 2H), 0.69(m, 1H), 0.55-0.40(m, 2H), 0.22-0.06(m, 2H).

6(208)

3-(2-(((1-(3,5-))) -4-(2- -5-))

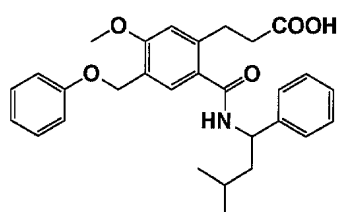


TLC: Rf 0.46(: =9:1);

NMR(300MHz, CDCl₃): 7.53(s, 1H), 7.44(d, J=7.8Hz, 1H), 7.30-7.23(m, 2H), 6.99(s, 2H), 6.92(s, 1H), 6.78(s, 1H), 6.74(d, J=7.8Hz, 1H), 6.36(d, J=7.5Hz, 1H), 5.23(dq, J=7.5, 6.9Hz, 1H), 5.08(s, 2H), 3.08(t, J=7.5Hz, 2H), 2.77(t, J=7.5Hz, 2H), 2.32(s, 6H), 2.31(s, 3H), 1.57(d, J=6.9Hz, 3H).

6(209)

3-(2-((3- -1-))-4- -5-)

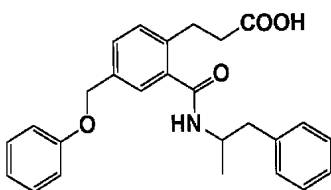


TLC: Rf 0.28(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 7.46(s, 1H), 7.38-7.22(m, 7H), 7.02-6.94(m, 3H), 6.78(s, 1H), 6.19(d, J=8.4Hz, 1H), 5.19(m, 1H), 5.06(s, 2H), 3.87(s, 3H), 3.06(m, 2H), 2.76(t, J=7.5Hz, 2H), 1.82-1.50(m, 3H), 0.972(d, J=6.6Hz, 3H), 0.969(d, J=6.6Hz, 3H).

6(210)

3-(2-((1- -2-))-4-)

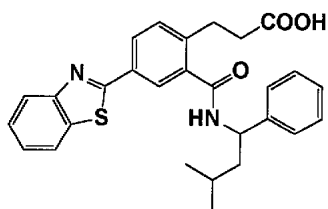


TLC: Rf 0.34(: =10:1);

NMR(300MHz, CDCl₃): 7.43-7.16(m, 10H), 7.03-6.92(m, 3H), 5.99(d, J=8.1Hz, 1H), 4.98(s, 2H), 4.49(m, 1H), 3.00-2.90(m, 2H), 2.87(d, J=6.6Hz, 2H), 2.80-2.65(m, 2H), 1.26(d, J=6.6Hz, 3H).

6(211)

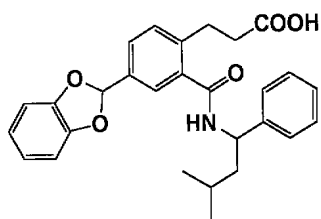
3-(2-((3- -1-))-4-(-2-))



TLC: Rf 0.48(: =10:1).

6(212)

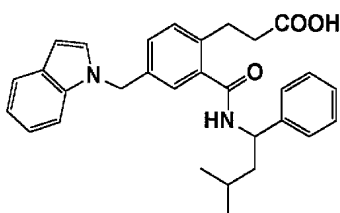
3-(2-((3- -1-))-4-(1,3- -2-))



TLC: Rf 0.46(: =10:1).

6(213)

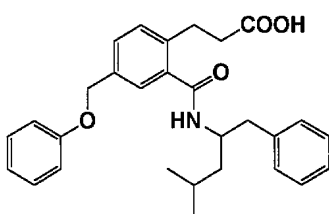
3-(2-((3- -1-))-4-(-1-))



TLC: Rf 0.48(: =10:1).

6(214)

3-(2-((4- -1- -2-))-4-)

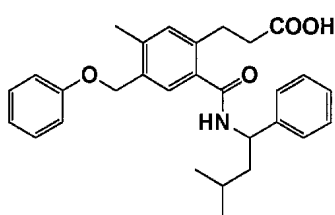


TLC: Rf 0.50(: =10:1);

NMR(300MHz, CDCl₃): 7.43-7.16(m, 10H), 7.04-6.93(m, 3H), 5.76(d, J=9.0Hz, 1H), 4.99(s, 2H), 4.53(m, 1H), 3.02-2.66(m, 6H), 1.72(m, 1H), 1.52-1.35(m, 2H), 0.97(d, J=6.0Hz, 3H), 0.95(d, J=6.0Hz, 3H).

6(215)

3-(2-((3- -1-))-4- -5-)

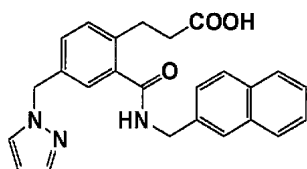


TLC: Rf 0.23(: =2:1, 0.5%);

NMR(300MHz, CDCl₃): 7.40(s, 1H), 7.36-7.25(m, 7H), 7.12(s, 1H), 7.03-6.95(m, 3H), 6.31(d, J=8.1Hz, 1H), 5.21(m, 1H), 4.99(s, 2H), 3.01(m, 2H), 2.74(t, J=7.5Hz, 2H), 2.35(s, 3H), 1.85-1.55(m, 3H), 0.97(d, J=6.6 Hz, 6H).

6(216)

3-(2-((-2-))-4-(-1-))

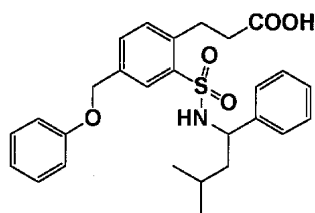


TLC: Rf 0.37(: =10:1);

NMR(300MHz, DMSO-d₆): 12.14(brs, 1H), 9.01(t, J=5.7Hz, 1H), 7.95-7.77(m, 5H), 7.57-7.44(m, 4H), 7.33-7.26(m, 2H), 7.20(d, J=8.1Hz, 1H), 6.28(m, 1H), 5.34(s, 2H), 4.60(d, J=5.7Hz, 2H), 2.92(t, J=7.8Hz, 2H), 2.57-2.48(m, 2H).

6(217)

3-(2-((3- -1-))-4-)

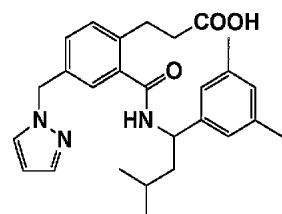


TLC: Rf 0.46(: =5:1);

NMR(300MHz, CDCl₃): 7.77(s, 1H), 7.43(d, J=8.1Hz, 1H), 7.38-7.25(m, 2H), 7.20-6.90(m, 9H), 6.10-5.95(m, 1H), 4.94(s, 2H), 4.32(q, J=7.5Hz, 1H), 3.25-3.00(m, 2H), 2.72(ddd, J=16.2, 10.2, 5.7Hz, 1H), 2.51(ddd, J=16.2, 10.5, 5.7Hz, 1H), 1.80-1.40(m, 3H), 0.88(d, J=6.6Hz, 3H), 0.85(d, J=6.6Hz, 3H).

6(218)

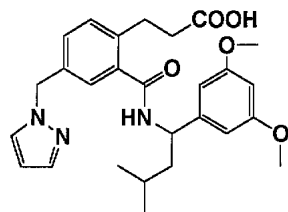
3-(2-((3- -1-(3,5-)))-4-(-1-))



TLC: Rf 0.54(: =10:1).

6(219)

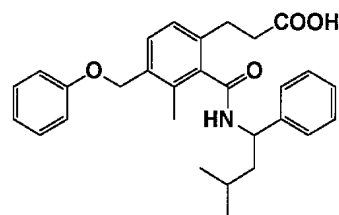
3-(2-((3- -1-(3,5-)))-4-(-1-))



TLC: Rf 0.51(: =10:1).

6(220)

3-(2-((3- -1-))-3- -4-)

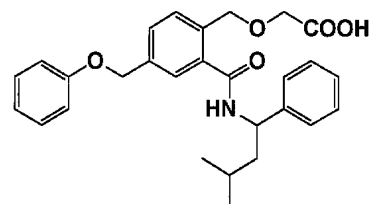


TLC: Rf 0.38(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 7.40-7.25(m, 8H), 7.07(d, J=8.1Hz, 1H), 7.01-6.93(m, 3H), 6.18(d, J=8.7Hz, 1H), 5.29(m, 1H), 4.96(s, 2H), 2.90(m, 2H), 2.62(m, 2H), 2.22(bs, 3H), 1.90-1.55(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(221)

2-(2-(3- -1-) -4-)

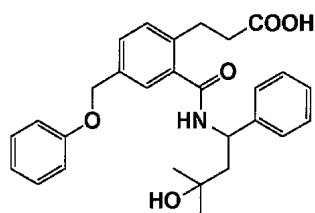


TLC: Rf 0.44(: =9:1);

NMR(300MHz, CDCl₃): 7.57(d, J=1.5Hz, 1H), 7.49(dd, J=7.8, 1.5Hz, 1H), 7.39-7.24(m, 8H), 7.03-6.92(m, 3H), 6.65(d, J=8.4Hz, 1H), 5.24(m, 1H), 5.08(s, 2H), 4.67(d, J=11Hz, 1H), 4.56(d, J=11Hz, 1H), 3.99(d, J=17 Hz, 1H), 3.94(d, J=17Hz, 1H), 1.89-1.52(m, 3H), 0.99(d, J=6.5Hz, 3H), 0.98(d, J=6.5Hz, 3H).

6(222)

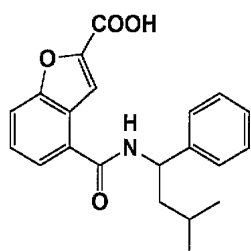
3-(2-((3- -3- -1-))-4-)



TLC: Rf 0.42(: =10:1).

6(223)

4-(3- -1-)-2-

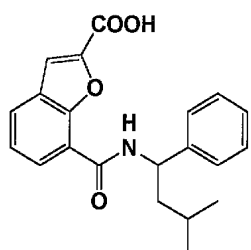


TLC: Rf 0.29(: : =90:10:1);

NMR(300MHz, DMSO-d₆): 8.94(d, J=8.7Hz, 1H), 7.90-7.82(m, 2H), 7.79(d, J=0.6Hz, 1H), 7.59(t, J=8.0Hz, 1H), 7.45-7.39(m, 2H), 7.36-7.28(m, 2H), 7.22(m, 1H), 5.15(m, 1H), 1.87(m, 1H), 1.70-1.48(m, 2H), 0.93(d, J=6.3Hz, 6H).

6(224)

7-(3- -1-)-2-

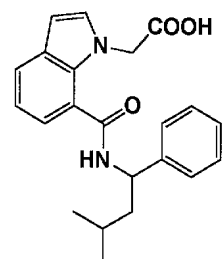


TLC: Rf 0.53(: : =90:10:1);

NMR(300MHz, DMSO-d₆): 8.74(d, J=8.1Hz, 1H), 7.91(d, J=8.1Hz, 1H), 7.76-7.69(m, 2H), 7.50-7.18(m, 6H), 5.14(m, 1H), 1.88-1.71(m, 2H), 1.52(m, 1H), 0.95(d, J=6.2Hz, 3H), 0.93(d, J=6.2Hz, 3H).

6(225)

2-(7-(3- -1-) -1-)

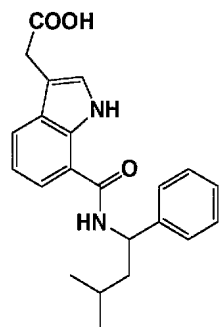


TLC: Rf 0.35();

NMR(300MHz, DMSO-d₆): 12.56(s, 1H), 8.99(d, J=8.7Hz, 1H), 7.65(d, J=7.8Hz, 1H), 7.41-7.31(m, 5H), 7.25-7.20(m, 1H), 7.14(d, J=6.6Hz, 1H), 7.05(t, J=7.8Hz, 1H), 6.52(d, J=3.0Hz, 1H), 5.17(d, J=18.3Hz, 1H), 5.12-5.06(m, 1H), 4.97(d, J=18.3Hz, 1H), 1.84-1.74(m, 1H), 1.68-1.55(m, 1H), 1.50-1.41(m, 1H), 0.95(d, J=6.3Hz, 3H), 0.91(d, J=6.3Hz, 3H).

6(226)

2-(7-(3- -1-) -3-)

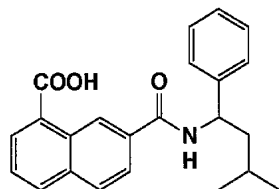


TLC: Rf 0.60();

NMR(300MHz, CDCl₃): 10.25(brs, 1H), 7.76(d, J=7.8Hz, 1H), 7.40-7.23(m, 7H), 7.11(t, J=7.8Hz, 1H), 6.98(d, J=6.9Hz, 1H), 5.31-5.23(m, 1H), 3.80(s, 2H), 1.89-1.58(m, 3H), 1.01-0.97(m, 6H).

6(227)

7-(3- -1-)

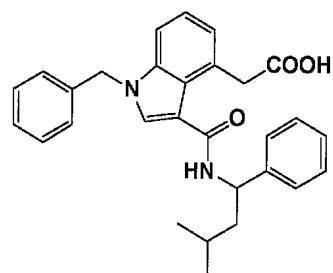


TLC: Rf 0.33(: =10:1);

NMR(300MHz, DMSO-d₆): 9.31(s, 1H), 8.96(d, J=8.4Hz, 1H), 8.24-8.13(m, 2H), 8.08(d, J=8.7Hz, 1H), 7.97(d, J=8.7Hz, 1H), 7.66(m, 1H), 7.47-7.17(m, 5H), 5.14(m, 1H), 1.88(m, 1H), 1.67(m, 1H), 1.54(m, 1H), 0.94(d, J=6.3Hz, 6H).

6(228)

2-(1- -3-(3- -1-) -4-)

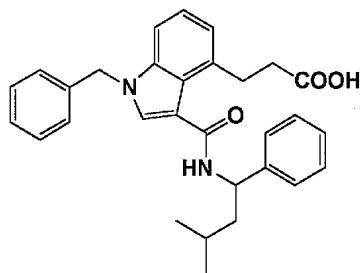


TLC: Rf 0.38(n- : =1:1);

NMR(300MHz, DMSO-d₆): 12.24(brs, 1H), 8.56(brd, J=8.7Hz, 1H), 8.01(s, 1H), 7.50-7.20(m, 11H), 7.09(t, J=7.5Hz, 1H), 6.92(d, J=7.5Hz, 1H), 5.47(s, 2H), 5.20-5.05(m, 1H), 4.24(d, J=15.3Hz, 1H), 4.01(d, J=15.3Hz, 1H), 1.90-1.45(m, 3H), 0.95(t, J=6.0Hz, 6H).

6(229)

3-(1- -3-(3- -1-) -4-)

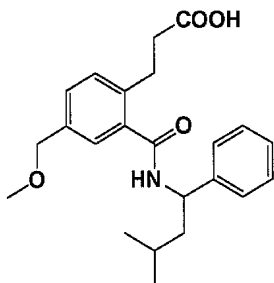


TLC: Rf 0.33(n- : =1:1);

NMR(300MHz, DMSO-d₆): 11.84(brs, 1H), 8.48(brd, J=8.4Hz, 1H), 7.87(s, 1H), 7.50-7.20(m, 11H), 7.04(t, J=7.2Hz, 1H), 6.89(d, J=7.2Hz, 1H), 5.45(s, 2H), 5.20-5.05(m, 1H), 3.40-3.10(m, 2H), 2.38(dt, J=2.4, 7.8Hz, 2H), 1.90-1.45(m, 3H), 0.95(t, J=6.3Hz, 6H).

6(230)

3-(2-((3- -1-))-4-)

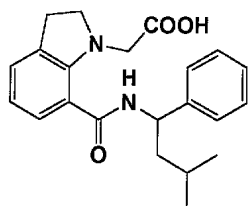


TLC: Rf 0.27(n- : =1:1);

NMR(300MHz, DMSO-d₆): 8.82(d, J=8.7Hz, 1H), 7.41-7.16(m, 8H), 5.07(m, 1H), 4.40(s, 2H), 3.30(s, 3H), 2.92-2.75(m, 2H), 2.55-2.40(m, 2H), 1.85-1.40(m, 3H), 0.98-0.89(m, 6H).

6(231)

2-(7-(3- -1-))-1-)

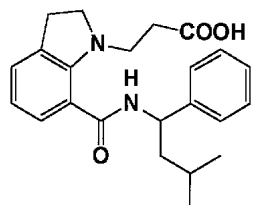


TLC: Rf 0.40();

NMR(300MHz, DMSO-d₆): 12.26(s, 1H), 8.73(d, J=7.8Hz, 1H), 7.36-7.28(m, 4H), 7.22-7.16(m, 1H), 7.06(d, J=7.2Hz, 1H), 6.93(d, J=7.2Hz, 1H), 6.57(t, J=7.5Hz, 1H), 5.04-4.96(m, 1H), 4.11(d, J=18.3Hz, 1H), 3.85(d, J=18.3Hz, 1H), 3.47(t, J=8.4Hz, 2H), 2.96-2.90(m, 2H), 1.80-1.34(m, 3H), 0.92-0.88(m, 6H).

6(232)

3-(7-(3- -1-))-1-)

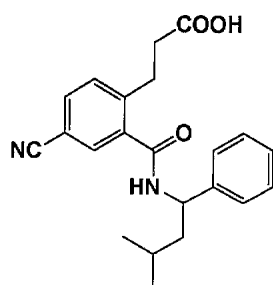


TLC: Rf 0.70();

NMR(300MHz, DMSO-d₆): 12.09(brs, 1H), 8.73(d, J=9.0Hz, 1H), 7.38-7.18(m, 5H), 7.05(d, J=7.5Hz, 1H), 6.90(d, J=7.5Hz, 1H), 6.57(t, J=7.5Hz, 1H), 5.04-4.95(m, 1H), 3.41-3.35(m, 2H), 3.23(t, J=7.5Hz, 2H), 2.90-2.84(m, 2H), 2.30-2.24(m, 2H), 1.80-1.41(m, 3H), 0.90(d, J=6.3Hz, 6H).

6(233)

3-(2-((3- -1-))-4-)

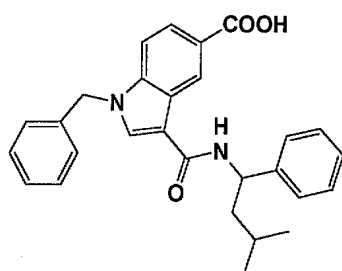


TLC: Rf 0.42(: =9:1);

NMR(300MHz, CDCl₃): 7.65-7.58(m, 2H), 7.41-7.25(m, 6H), 6.50(d, J=8.1Hz, 1H), 5.22(m, 1H), 3.09-2.97(m, 2H), 2.77-2.65(m, 2H), 1.87-1.52(m, 3H), 0.99(d, J=6.6Hz, 6H).

6(234)

1- -3-(3- -1-)-5-)

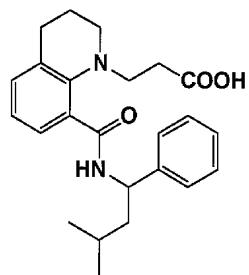


TLC: Rf 0.47(: =9:1);

NMR(300MHz, DMSO-d₆): 8.81(s, 1H), 8.39-8.31(m, 2H), 7.75(dd, J=8.9, 1.5Hz, 1H), 7.59(d, J=8.9Hz, 1H), 7.43-7.16(m, 10H), 5.51(s, 2H), 5.13(m, 1H), 1.79(m, 1H), 1.69-1.48(m, 2H), 0.93(d, J=6.6Hz, 6H).

6(235)

3-(8-(3- -1-)-1,2,3,4- -1-)

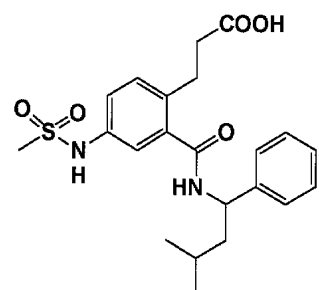


TLC: Rf 0.56(: =10:1);

NMR(300MHz, DMSO-d₆): 8.75(d, J=8.1Hz, 1H), 7.40-7.27(m, 4H), 7.23(m, 1H), 7.03-6.94(m, 2H), 6.69(t, J=7.5Hz, 1H), 4.98(m, 1H), 3.22-3.02(m, 4H), 2.67(t, J=6.0Hz, 2H), 2.40-2.17(m, 2H), 1.84-1.67(m, 3H), 1.62-1.42(m, 2H), 0.91(d, J=6.3Hz, 3H), 0.90(d, J=6.3Hz, 3H).

6(236)

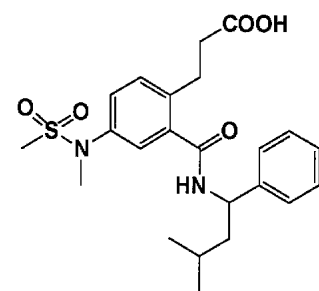
3-(2-((3- -1-))-4-



TLC: Rf 0.55().

6(237)

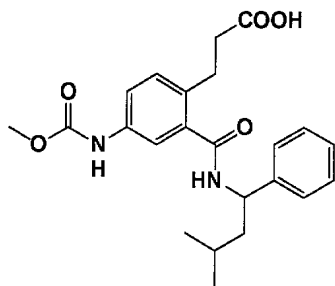
3-(2-((3- -1-))-4-(N- -N-))



TLC: Rf 0.55().

6(238)

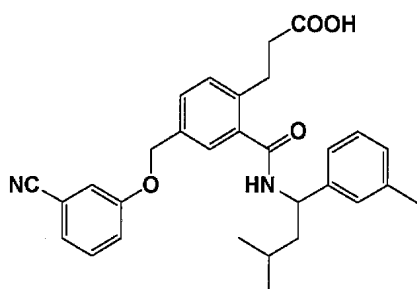
3-(2-((3- -1-))-4-



TLC: Rf 0.65().

6(239)

3-(2-((3- -1-(3-))))-4-(3-))

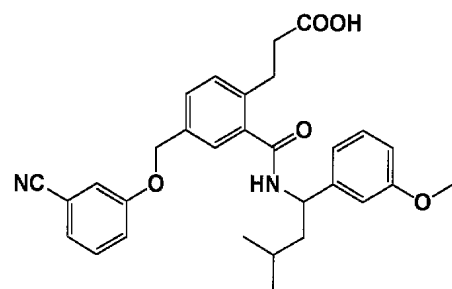


TLC: Rf 0.47(: =9:1);

NMR(300MHz, CDCl₃): 7.43-7.06(m, 11H), 6.40(d, J=8.7Hz, 1H), 5.21(dt, J=8.7, 8.7Hz, 1H), 5.04(s, 2H), 3.03(m, 2H), 2.74(t, J=7.5Hz, 2H), 2.35(s, 3H), 1.85-1.58(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(240)

3-(2-((3- -1-(3-))))-4-(3-))

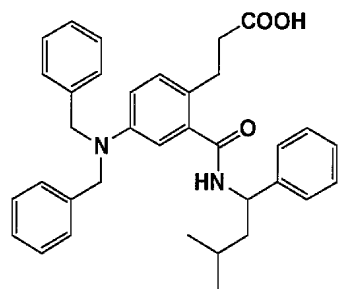


TLC: Rf 0.43(: =9:1);

NMR(300MHz, CDCl₃): 7.42-7.15(m, 8H), 6.95(d, J=7.8Hz, 1H), 6.91(m, 1H), 6.81(dd, J=8.4, 2.7Hz, 1H), 6.45(d, J=8.1Hz, 1H), 5.22(dt, J=8.1, 8.1Hz, 1H), 5.03(s, 2H), 3.81(s, 3H), 3.02(t, J=7.2Hz, 2H), 2.74(t, J=7.2 Hz, 2H), 1.83-1.58(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(241)

3-(2-((3- -1-)))-4-)

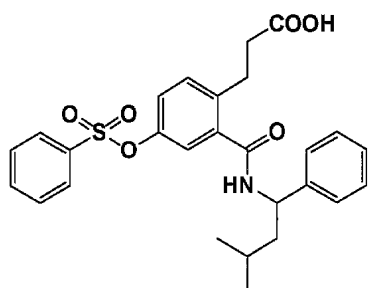


TLC: Rf 0.50(n- : =1:1);

NMR(300MHz, DMSO-d₆): 11.94(s, 1H), 8.56(d, J=8.7Hz, 1H), 7.35-7.18(m, 15H), 6.96(d, J=8.4Hz, 1H), 6.62(dd, J=8.4, 2.7Hz, 1H), 6.56(d, J=2.7Hz, 1H), 4.98-4.90(m, 1H), 4.72(s, 4H), 2.72-2.58(m, 2H), 2.34(t, J=7.8Hz, 2H), 1.73-1.50(m, 2H), 1.40-1.31(m, 1H), 0.86-0.83(m, 6H).

6(242)

3-(2-((3- -1-))-4-)

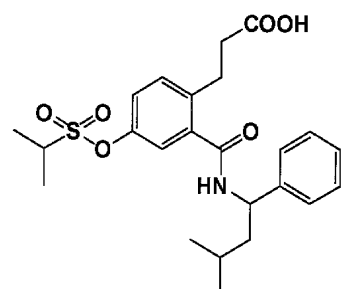


TLC: Rf 0.31(n- : =1:1);

NMR(300MHz, CDCl₃): 7.84-7.81(m, 2H), 7.65(m, 1H), 7.55-7.49(m, 2H), 7.39-7.26(m, 5H), 7.18(d, J=8.4Hz, 1H), 6.97(dd, J=8.4, 2.4Hz, 1H), 6.90(d, J=2.4Hz, 1H), 6.39(d, J=8.1Hz, 1H), 5.16(m, 1H), 2.98-2.93(m, 2H), 2.68-2.62(m, 2H), 1.81-1.63(m, 2H), 1.55(m, 1H), 0.98(d, J=6.6Hz, 3H), 0.96(d, J=6.6Hz, 3H).

6(243)

3-(2-((3- -1-))-4-)

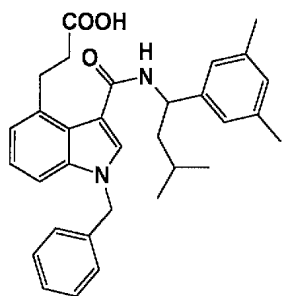


TLC: Rf 0.28(n- : =1:1);

NMR(300MHz, CDCl₃): 7.36-7.35(m, 4H), 7.31-7.23(m, 4H), 6.61(brd, J=8.4Hz, 1H), 5.21(m, 1H), 3.48 (quint, J=6.9Hz, 1H), 3.01-2.95(m, 2H), 2.71-2.66(m, 2H), 1.85-1.66(m, 2H), 1.58(m, 1H), 1.55(d, J=6.9Hz, 6H), 0.99(d, J=6.6Hz, 3H), 0.97(d, J=6.6Hz, 3H).

6(244)

3-(1-(3-(3-(1-(3,5-)) -4-)

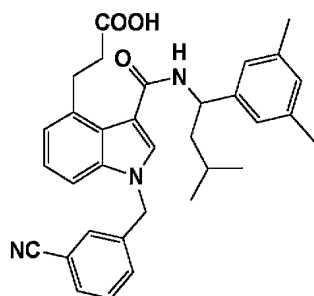


TLC: Rf 0.34(: =9:1);

NMR(300MHz, CDCl₃): 7.43(s, 1H), 7.36-7.02(m, 8H), 6.95(s, 2H), 6.92(s, 1H), 6.25(d, J=8.4Hz, 1H), 5.31(s, 2H), 5.17(dt, J=8.4, 8.4Hz, 1H), 3.33(m, 2H), 2.77(t, J=8.1Hz, 2H), 2.31(s, 6H), 1.80-1.50(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(245)

3-(1-(3-(3-(1-(3,5-)) -4-)

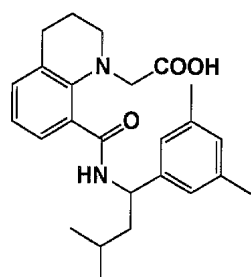


TLC: Rf 0.34(: =9:1);

NMR(300MHz, CDCl₃): 7.60(d, J=8.1Hz, 1H), 7.48-6.90(m, 10H), 6.28(d, J=8.4Hz, 1H), 5.35(s, 2H), 5.19(dt, J=8.4, 8.4Hz, 1H), 3.32(m, 2H), 2.78(t, J=8.1Hz, 2H), 2.32(s, 6H), 1.93-1.60(m, 3H), 1.00(d, J=6.3Hz, 3H), 0.99(d, J=6.3Hz, 3H).

6(246)

2-(8-(3-(3-(1-(3,5-)) -1,2,3,4- -1-)

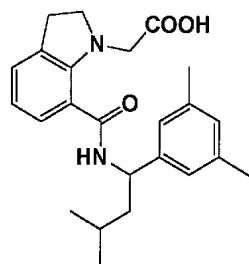


TLC: Rf 0.33(: =10:1);

NMR(300MHz, DMSO-d₆): 8.94(m, 1H), 7.14(m, 1H), 7.01(m, 1H), 6.97(s, 2H), 6.84(s, 1H), 6.72(m, 1H), 4.92(m, 1H), 3.67(d, J=17.4Hz, 1H), 3.57(d, J=17.4Hz, 1H), 3.30-3.04(m, 2H), 2.76-2.66(m, 2H), 2.25(s, 6H), 1.96-1.68(m, 3H), 1.66-1.34(m, 2H), 0.91(d, J=6.0Hz, 3H), 0.90(d, J=6.0Hz, 3H).

6(247)

2-(7-((3- -1-(3,5-))) -1-)

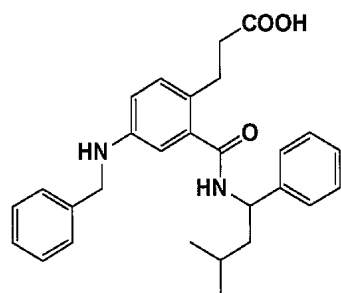


TLC: Rf 0.60(n- : =2:1);

NMR(300MHz, DMSO-d₆): 12.22(brs, 1H), 8.63(d, J=7.8Hz, 1H), 7.07-6.82(m, 5H), 6.57(t, J=7.5Hz, 1H), 4.97-4.89(m, 1H), 4.12(d, J=18.3Hz, 1H), 3.81(d, J=18.3Hz, 1H), 3.47(t, J=8.7Hz, 2H), 2.96-2.90(m, 2H), 2.24(s, 6H), 1.78-1.68(m, 1H), 1.62-1.54(m, 1H), 1.40-1.30(m, 1H), 0.91-0.87(m, 6H).

6(248)

3-(2-((3- -1-))-4-)

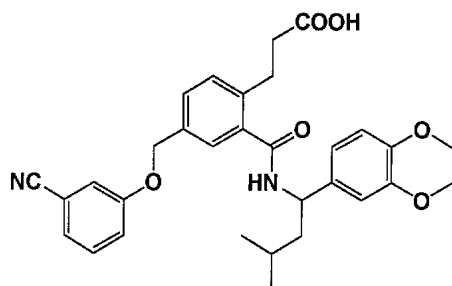


TLC: Rf 0.55(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.20(m, 10H), 7.03(d, J=8.1Hz, 1H), 6.62(dd, J=8.1, 2.4Hz, 1H), 6.54(d, J=2.4Hz, 1H), 6.22(d, J=8.7Hz, 1H), 5.18(q, J=8.4Hz, 1H), 4.30(s, 2H), 2.86(t, J=7.2Hz, 2H), 2.66(t, J=7.2Hz, 2H), 1.80-1.50(m, 3H), 0.96(d, J=6.3Hz, 6H).

6(249)

3-(2-((3- -1-(3,4-)))-4-(3-))

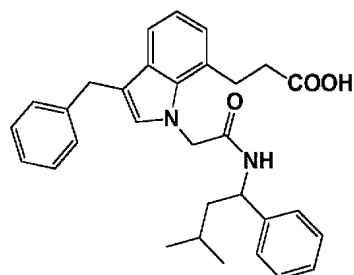


TLC: Rf 0.45(: =9:1);

NMR(300MHz, CDCl₃): 7.44-7.34(m, 3H), 7.32-7.24(m, 2H), 7.20-7.14(m, 2H), 6.94-6.88(m, 2H), 6.84(d, J=8.7Hz, 1H), 6.42(d, J=8.4Hz, 1H), 5.20(q, J=7.2Hz, 1H), 5.02(s, 2H), 3.88(s, 3H), 3.86(s, 3H), 3.01(t, J=8.1Hz, 2H), 2.73(t, J=8.1Hz, 2H), 1.90-1.50(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(250)

3-(3-(1-(3-(1-() -7-)

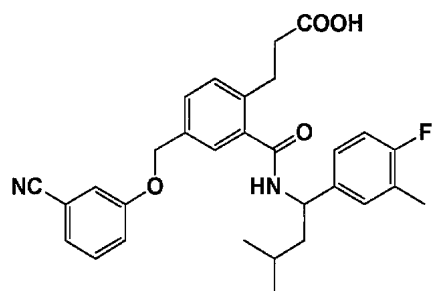


TLC: Rf 0.44(: =9:1);

NMR(300MHz, CDCl₃): 7.47(d, J=7.2Hz, 1H), 7.40-7.15(m, 9H), 7.09(t, J=7.2Hz, 1H), 7.01(d, J=7.2Hz, 1H), 6.90-6.80(m, 2H), 6.67(s, 1H), 5.17(brd, J=8.4Hz, 1H), 5.02-4.83(m, 3H), 4.09(s, 2H), 3.11(dd, J=8.7, 5.7 Hz, 2H), 2.59(dd, J=8.7, 6.9Hz, 2H), 1.35-1.15(m, 2H), 1.15-0.97(m, 1H), 0.77(d, J=6.6Hz, 3H), 0.72(d, J=6.6 Hz, 3H).

6(251)

3-(2-((3-(1-(3-(4-()))-4-(3-())

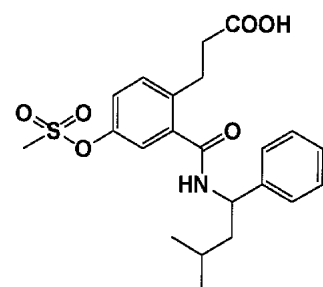


TLC: Rf 0.35(: =10:1);

NMR(300MHz, CDCl₃): 7.42-7.35(m, 3H), 7.31-7.25(m, 2H), 7.21-7.11(m, 4H), 6.96(dd, J=8.7, 8.7Hz, 1H), 6.46(d, J=8.4Hz, 1H), 5.17(m, 1H), 5.03(s, 2H), 3.06-2.95(m, 2H), 2.76-2.64(m, 2H), 2.26(d, J=1.5Hz, 3H), 1.81-1.53(m, 3H), 0.97(d, J=6.6Hz, 6H).

6(252)

3-(2-((3-(1-()))-4-()



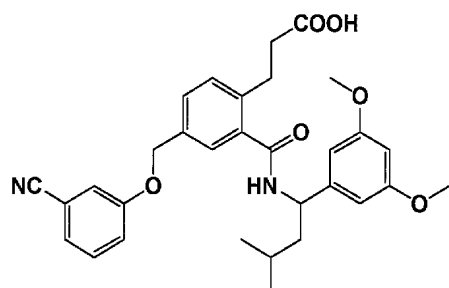
TLC: Rf 0.52(: =9:1);

NMR(300MHz, CDCl₃): 7.36-7.34(m, 4H), 7.30-7.24(m, 4H), 6.67(brd, J=8.1Hz, 1H), 5.21(m, 1H), 3.14(s

, 3H), 3.02-2.91(m, 2H), 2.70-2.64(m, 2H), 1.85-1.67(m, 2H), 1.58(m, 1H), 0.97(d, J=6.0Hz, 6H).

6(253)

3-(2-((3- -1-(3,5-))))-4-(3-))

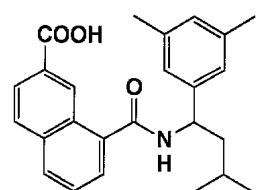


TLC: Rf 0.43(: =10:1);

NMR(300MHz, CDCl₃): 7.44-7.14(m, 7H), 6.52(s, 2H), 6.48(d, J=8.4Hz, 1H), 6.37(s, 1H), 5.17(m, 1H), 5.03(s, 2H), 3.79(s, 6H), 3.03(t, J=7.2Hz, 2H), 2.75(t, J=7.2Hz, 2H), 1.83-1.56(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(254)

8-(3- -1-(3,5-))-2-

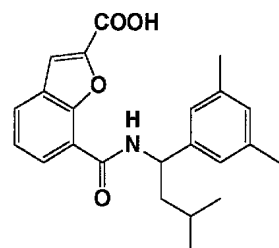


TLC: Rf 0.67(: =10:1);

NMR(300MHz, DMSO-d₆): 8.97(d, J=8.4Hz, 1H), 8.80(s, 1H), 8.12-7.95(m, 3H), 7.73-7.58(m, 2H), 7.02(s, 2H), 6.87(s, 1H), 5.12(m, 1H), 2.27(s, 6H), 1.84-1.65(m, 2H), 1.54-1.39(m, 1H), 1.00(d, J=6.0Hz, 3H), 0.93(d, J=6.0Hz, 3H).

6(255)

7-(3- -1-(3,5-))-2-

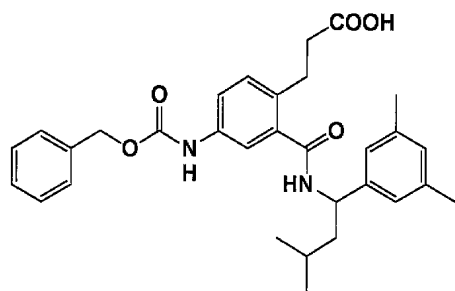


TLC: Rf 0.55(: : =90:10:1);

NMR(300MHz, CDCl₃): 8.29(dd, J=7.7, 1.3Hz, 1H), 7.93(d, J=7.8Hz, 1H), 7.85(dd, J=7.7, 1.3Hz, 1H), 7.74(s, 1H), 7.45(t, J=7.7Hz, 1H), 7.07(s, 2H), 6.89(s, 1H), 5.28(m, 1H), 2.32(s, 6H), 2.00-1.66(m, 3H), 1.02(d, J=8.3Hz, 3H), 1.00(d, J=8.3Hz, 3H).

6(256)

3-(2-((3- -1-(3,5-))))-4-

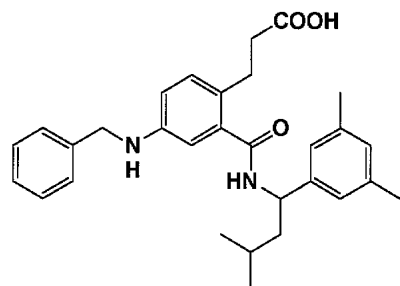


TLC: Rf 0.61(: =9:1);

NMR(300MHz, CDCl₃): 7.46-7.24(m, 6H), 7.16-7.08(m, 1H), 6.98-6.80(m, 4H), 6.56-6.42(m, 1H), 5.17(s, 2H), 5.13(q, J=7.2Hz, 1H), 3.00-2.85(m, 2H), 2.70-2.55(m, 2H), 2.29(s, 6H), 1.80-1.50(m, 3H), 0.96(d, J=5.4Hz, 6H).

6(257)

3-(2-((3- -1-(3,5-))))-4-

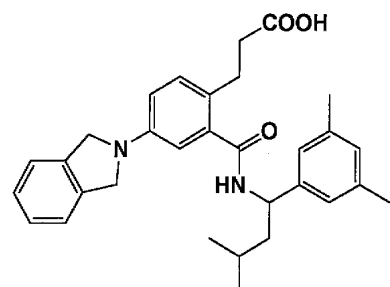


TLC: Rf 0.57(: =9:1);

NMR(300MHz, CDCl₃): 7.38-7.24(m, 5H), 7.03(d, J=8.4Hz, 1H), 6.91(s, 3H), 6.62(dd, J=8.4, 2.4Hz, 1H), 6.55(d, J=2.4Hz, 1H), 6.15(d, J=8.4Hz, 1H), 5.11(q, J=8.4Hz, 1H), 4.30(s, 2H), 2.88(t, J=7.5Hz, 2H), 2.67(t, J=7.5Hz, 2H), 2.30(s, 6H), 1.80-1.50(m, 3H), 0.96(d, J=6.3Hz, 6H).

6(258)

3-(2-((3- -1-(3,5-))))-4-(-2-))

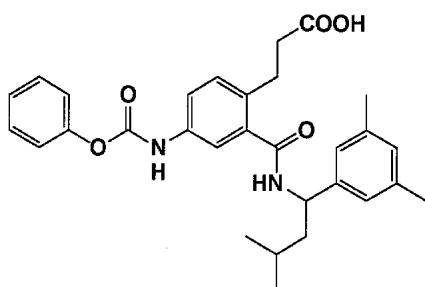


TLC: Rf 0.47(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.25(m, 4H), 7.16(d, J=8.4Hz, 1H), 6.98(s, 2H), 6.92(s, 1H), 6.67(dd, J=8.4, 2.4Hz, 1H), 6.60(d, J=2.4Hz, 1H), 6.40(d, J=8.4Hz, 1H), 5.19(q, J=8.4Hz, 1H), 4.62(s, 4H), 2.92(t, J=7.2Hz, 2H), 2.72(t, J=7.2Hz, 2H), 2.32(s, 6H), 1.85-1.55(m, 3H), 1.00(d, J=6.3Hz, 6H).

6(259)

3-(2-((3- -1-(3,5-)))-4-

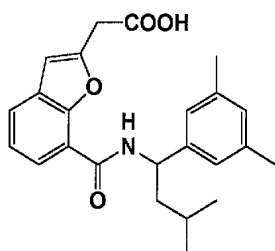


TLC: Rf 0.47(: =9:1);

NMR(300MHz, CDCl₃): 7.52(s, 1H), 7.42-7.32(m, 3H), 7.28-7.10(m, 4H), 6.94(s, 2H), 6.88(s, 1H), 6.48(d, J=8.7Hz, 1H), 5.13(q, J=8.7Hz, 1H), 3.00-2.90(m, 2H), 2.70-2.60(m, 2H), 2.28(s, 6H), 1.80-1.50(m, 3H), 0.95(d, J=6.3Hz, 6H).

6(260)

2-(7-(3- -1-(3,5-)) -2-)

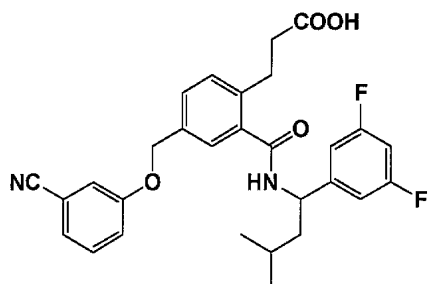


TLC: Rf 0.48(: =9:1);

NMR(300MHz, CDCl₃): 8.03(dd, J=7.7, 1.3Hz, 1H), 7.69(d, J=7.8Hz, 1H), 7.64(dd, J=7.7, 1.3Hz, 1H), 7.31(t, J=7.7Hz, 1H), 6.99(s, 2H), 6.86(s, 1H), 6.75(s, 1H), 5.23(m, 1H), 3.93(s, 2H), 2.29(s, 6H), 1.91-1.59(m, 3H), 0.97(d, J=6.2Hz, 3H), 0.95(d, J=6.2Hz, 3H).

6(261)

3-(2-((3- -1-(3,5-)))-4-(3-))

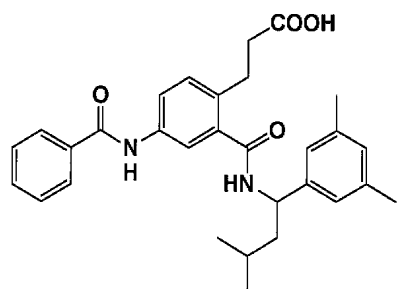


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 7.45-7.15(m, 8H), 6.90(t, J=8.4Hz, 2H), 6.65(d, J=8.4Hz, 1H), 5.72(q, J=8.4Hz, 1H), 5.05(s, 2H), 3.04(t, J=7.2Hz, 2H), 2.72(t, J=7.2Hz, 2H), 1.95-1.80(m, 1H), 1.80-1.65(m, 1H), 1.65-1.50(m, 1H), 1.00(d, J=6.0Hz, 3H), 0.98(d, J=6.0Hz, 3H).

6(262)

3-(2-((3- -1-(3,5-)))-4-

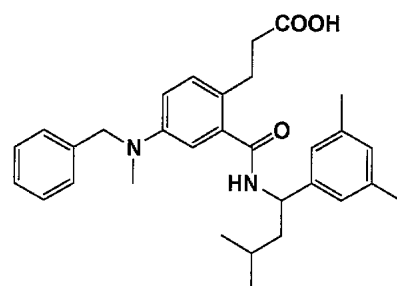


TLC: Rf 0.46(: =9:1);

NMR(300MHz, CDCl₃): 8.10-8.00(m, 1H), 7.85(d, J=8.0Hz, 2H), 7.71(s, 1H), 7.60-7.42(m, 4H), 7.24-7.18(m, 1H), 6.96(s, 2H), 6.89(s, 1H), 6.70-6.62(m, 1H), 5.14(q, J=7.5Hz, 1H), 3.05-2.95(m, 2H), 2.75-2.65(m, 2H), 2.30(s, 6H), 1.85-1.55(m, 3H), 0.97(d, J=6.6Hz, 6H).

6(263)

3-(2-((3- -1-(3,5-)))-4-(N- -N-))

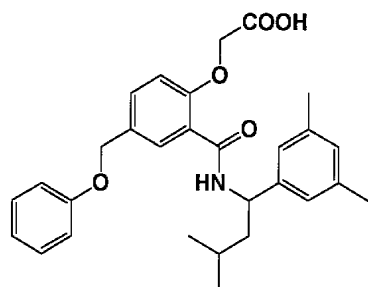


TLC: Rf 0.57(: =9:1);

NMR(300MHz, CDCl₃): 7.36-7.16(m, 5H), 7.06(d, J=8.7Hz, 1H), 6.89(s, 3H), 6.72(dd, J=8.7, 3.0Hz, 1H), 6.64(d, J=3.0Hz, 1H), 6.12(d, J=8.4Hz, 1H), 5.10(q, J=8.4Hz, 1H), 4.50(s, 2H), 3.04(s, 3H), 2.88(t, J=7.5Hz, 2H), 2.67(t, J=7.5Hz, 2H), 2.29(s, 6H), 1.80-1.45(m, 3H), 0.96(d, J=6.6Hz, 3H), 0.95(d, J=6.6Hz, 3H).

6(264)

2-(2-((3- -1-(3,5-)))-4-

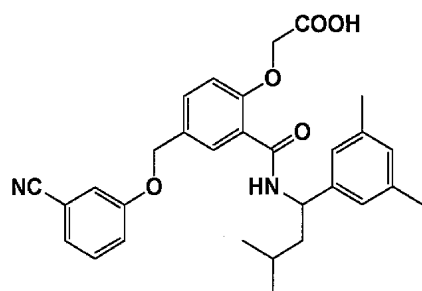


TLC: Rf 0.38(: =9:1);

NMR(300MHz, CDCl₃): 8.01(s, 2H), 7.51(dd, J=7.6, 2.3Hz, 1H), 7.32-7.22(m, 2H), 7.13-6.84(m, 7H), 5.22(m, 1H), 5.00(s, 2H), 4.78(s, 2H), 2.28(s, 6H), 1.94-1.54(m, 3H), 0.95(d, J=6.0Hz, 6H).

6(265)

2-(2-((3- -1-(3,5-)))-4-(3-))

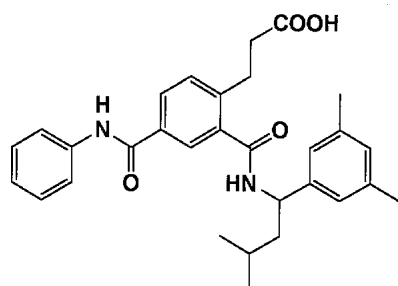


TLC: Rf 0.38(: =9:1);

NMR(300MHz, CDCl₃): 8.29(d, J=7.5Hz, 1H), 8.10(d, J=1.2Hz, 1H), 7.48(dd, J=7.6, 2.3Hz, 1H), 7.35(t, J=8.4Hz, 1H), 7.24(m, 1H), 7.18-7.10(m, 2H), 7.01(s, 2H), 6.93(d, J=8.4Hz, 1H), 6.85(s, 1H), 5.22(m, 1H), 5.00(s, 2H), 4.79(s, 2H), 2.27(s, 6H), 1.97-1.57(m, 3H), 0.95(d, J=6.3Hz, 6H).

6(266)

3-(2-((3- -1-(3,5-)))-4-

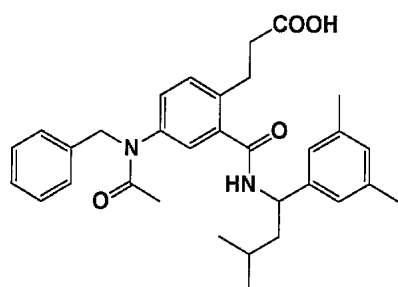


TLC: Rf 0.41(: =9:1);

NMR(300MHz, CD₃OD): 8.92(d, J=8.7Hz, 1H), 7.92(dd, J=8.1, 2.1Hz, 1H), 7.85(d, J=2.1Hz, 1H), 7.66(d, J=8.4Hz, 2H), 7.46(d, J=8.1Hz, 1H), 7.35(t, J=8.4Hz, 2H), 7.14(t, J=8.4Hz, 1H), 7.00(s, 2H), 6.89(s, 1H), 5.15-5.05(m, 1H), 3.01(t, J=7.2Hz, 2H), 2.55(t, J=7.2Hz, 2H), 2.30(s, 6H), 1.90-1.50(m, 3H), 1.01(d, J=6.3Hz, 3H), 0.99(d, J=6.3Hz, 3H).

6(267)

3-(2-((3- -1-(3,5-)))-4-(N- -N-))



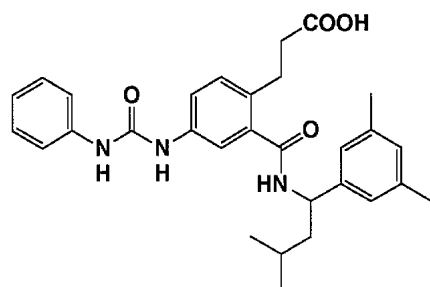
TLC: Rf 0.44(: =9:1);

NMR(300MHz, CDCl₃): 7.30-7.10(m, 6H), 7.10-7.00(m, 1H), 7.00-6.85(m, 3H), 6.68(s, 1H), 5.86(d, J=8.

1H, 1H), 5.06(q, J=8.1Hz, 1H), 4.83(s, 2H), 3.05-2.95(m, 2H), 2.70-2.60(m, 2H), 2.31(s, 6H), 1.85(s, 3H), 1.70-1.40(m, 3H), 0.96(d, J=6.3Hz, 3H), 0.95(d, J=6.3Hz, 3H).

6(268)

3-(2-((3- -1-(3,5-))))-4-((N-)))

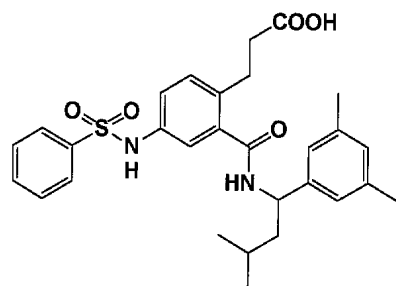


TLC: Rf 0.44(: =9:1);

NMR(300MHz, CD₃OD): 7.46-7.34(m, 4H), 7.32-7.20(m, 3H), 7.05-6.98(m, 3H), 6.88(s, 1H), 5.08(dd, J=9.6, 6.0Hz, 1H), 2.90(t, J=7.5Hz, 2H), 2.50(t, J=7.5Hz, 2H), 2.30(s, 6H), 1.85-1.50(m, 3H), 1.00(d, J=6.0Hz, 3H), 0.98(d, J=6.0Hz, 3H).

6(269)

3-(2-((3- -1-(3,5-))))-4-

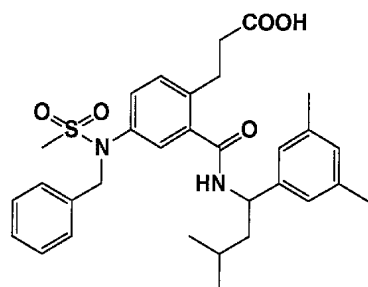


TLC: Rf 0.48(: =9:1);

NMR(300MHz, CDCl₃): 7.71(d, J=7.5Hz, 2H), 7.52(t, J=7.5Hz, 1H), 7.40(t, J=7.5Hz, 2H), 7.20-7.12(m, 1H), 7.10-7.00(m, 2H), 6.96-6.88(m, 4H), 6.42(d, J=8.7Hz, 1H), 5.09(q, J=8.7Hz, 1H), 2.95-2.85(m, 2H), 2.65-2.55(m, 2H), 2.30(s, 6H), 1.80-1.50(m, 3H), 0.96(d, J=6.3Hz, 6H).

6(270)

3-(2-((3- -1-(3,5-))))-4-(N- -N-))

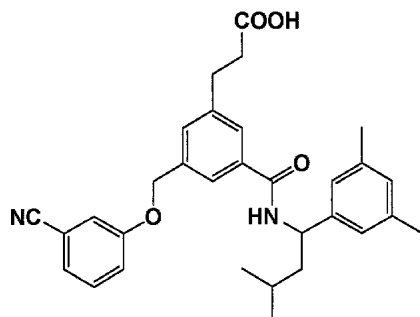


TLC: Rf 0.56(: =9:1);

NMR(300MHz, CDCl₃): 7.30-7.16(m, 7H), 7.12(d, J=3.0Hz, 1H), 6.91(s, 3H), 6.18(d, J=8.7Hz, 1H), 5.09(q, J=8.7Hz, 1H), 4.80(s, 2H), 3.00-2.90(m, 5H), 2.66(t, J=7.5Hz, 2H), 2.31(s, 6H), 1.80-1.50(m, 3H), 0.97(d, J=6.3Hz, 3H), 0.96(d, J=6.3Hz, 3H).

6(271)

3-(3-((3- -1-(3,5-))))-5-(3-))

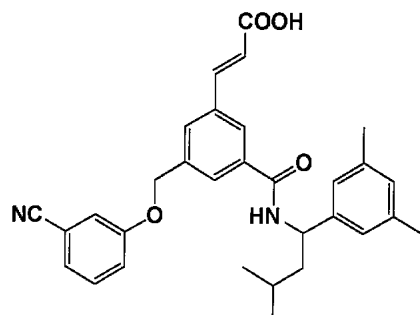


TLC: Rf 0.51(: =10:1);

NMR(300MHz, DMSO-d₆): 8.65(d, J=8.4Hz, 1H), 7.76(s, 1H), 7.71(s, 1H), 7.54-7.33(m, 5H), 6.97(s, 2H), 6.83(s, 1H), 5.17(s, 2H), 5.02(m, 1H), 2.89(t, J=7.5Hz, 2H), 2.58(t, J=7.5Hz, 2H), 2.24(s, 6H), 1.81(m, 1H), 1.66-1.43(m, 2H), 0.91(d, J=6.0Hz, 3H), 0.89(d, J=6.0Hz, 3H).

6(272)

3-(3-((3- -1-(3,5-))))-5-(3-))

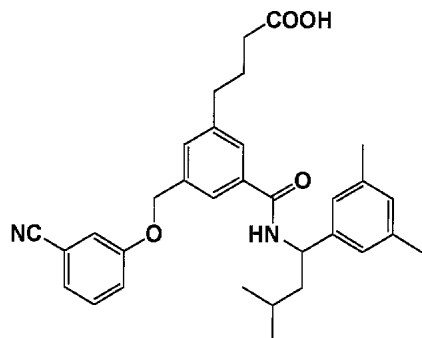


TLC: Rf 0.50(: =10:1);

NMR(300MHz, DMSO-d₆): 8.76(d, J=8.4Hz, 1H), 8.17(s, 1H), 7.95(s, 1H), 7.91(s, 1H), 7.64(d, J=15.9Hz, 1H), 7.60-7.34(m, 4H), 6.97(s, 2H), 6.84(s, 1H), 6.84(d, J=15.9Hz, 1H), 5.23(s, 2H), 5.04(m, 1H), 2.24(s, 6H), 1.82(m, 1H), 1.68-1.45(m, 2H), 0.92(d, J=6.0Hz, 3H), 0.90(d, J=6.0Hz, 3H).

6(273)

4-(3-((3- -1-(3,5-))))-5-(3-))

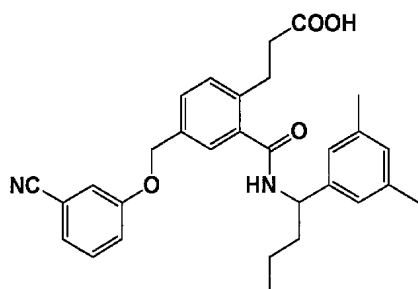


TLC: Rf 0.49(: =10:1);

NMR(300MHz, DMSO-d₆): 8.67(d, J=8.4Hz, 1H), 7.76(s, 1H), 7.67(s, 1H), 7.55-7.33(m, 5H), 6.97(s, 2H), 6.83(s, 1H), 5.18(s, 2H), 5.03(m, 1H), 2.65(t, J=7.8Hz, 2H), 2.28-2.19(m, 2H), 2.24(s, 6H), 1.89-1.74(m, 3H), 1.66-1.43(m, 2H), 0.91(d, J=6.0Hz, 3H), 0.89(d, J=6.0Hz, 3H).

_____ 6(274)

3-(2-(1-(3,5-)))-4-(3-))

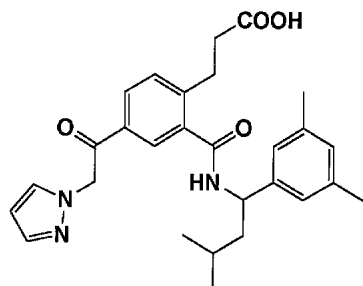


TLC: Rf 0.64(: =9:1);

NMR(300MHz, CDCl₃): 7.44-7.24(m, 5H), 7.22-7.14(m, 2H), 6.94(s, 2H), 6.91(s, 1H), 6.39(d, J=8.4Hz, 1H), 5.07(q, J=8.4Hz, 1H), 5.03(s, 2H), 3.04(t, J=7.2Hz, 2H), 2.73(t, J=7.2Hz, 2H), 2.30(s, 6H), 2.00-1.75(m, 2H), 1.50-1.25(m, 2H), 0.95(t, J=7.5Hz, 3H).

_____ 6(275)

3-(2-((3- -1-(3,5-))))-4-(-1-))

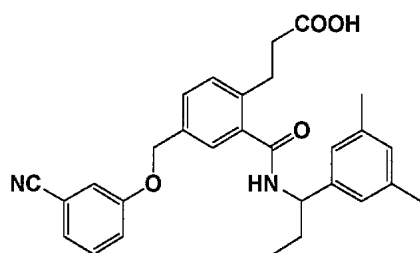


TLC: Rf 0.43(: =10:1);

NMR(300MHz, DMSO-d₆): 8.88(d, J=8.7Hz, 1H), 8.02(dd, J=7.8, 2.1Hz, 1H), 7.83(d, J=2.1Hz, 1H), 7.72(d, J=2.1Hz, 1H), 7.49(d, J=7.8Hz, 1H), 7.47(d, J=2.1Hz, 1H), 6.96(s, 2H), 6.85(s, 1H), 6.30(t, J=2.1Hz, 1H), 5.82(s, 2H), 4.98(m, 1H), 2.93(t, J=7.8Hz, 2H), 2.46(t, J=7.8Hz, 2H), 2.25(s, 6H), 1.80-1.55(m, 2H), 1.44(m, 1H), 0.93(d, J=6.6Hz, 3H), 0.91(d, J=6.6Hz, 3H).

6(276)

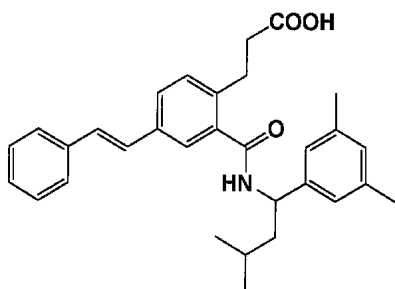
3-(2-((1-(3,5-



TLC: Rf 0.49(: =10:1);

NMR(300MHz, DMSO-d₆): 8.74(d, J=8.4Hz, 1H), 7.56-7.28(m, 7H), 6.95(s, 2H), 6.84(s, 1H), 5.16(s, 2H), 4.77(m, 1H), 2.85(t, J=7.8Hz, 2H), 2.46(t, J=7.8Hz, 2H), 2.24(s, 6H), 1.80-1.63(m, 2H), 0.89(t, J=7.2Hz, 3H).6(277)

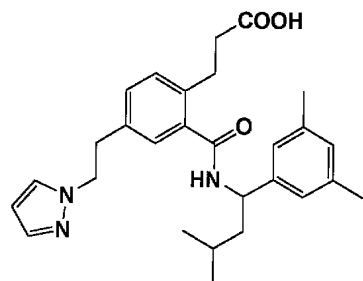
3-(2-((3-



TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 7.54-7.42(m, 4H), 7.40-7.32(m, 2H), 7.32-7.22(m, 2H), 7.09(d, J=16.5Hz, 1H), 7.03(d, J=16.5Hz, 1H), 6.98(s, 2H), 6.92(s, 1H), 6.35(d, J=8.7Hz, 1H), 5.19(q, J=8.7Hz, 1H), 3.01(t, J=7.5Hz, 2H), 2.72(t, J=7.5Hz, 2H), 2.32(s, 6H), 1.85-1.60(m, 3H), 0.99(d, J=6.3Hz, 6H).6(278)

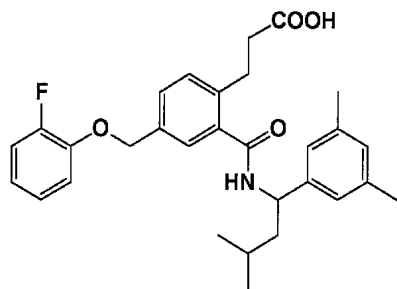
3-(2-((3-



TLC: Rf 0.50(: =10:1);

NMR(300MHz, CDCl₃): 7.50(s, 1H), 7.17-6.88(m, 6H), 6.75(s, 1H), 6.23(d, J=8.7Hz, 1H), 6.12(t, J=2.1Hz, 1H), 5.12(m, 1H), 4.29(t, J=6.9Hz, 2H), 3.08(t, J=6.9Hz, 2H), 2.98(t, J=7.2Hz, 2H), 2.70(t, J=7.2Hz, 2H), 2.32(s, 6H), 1.84-1.52(m, 3H), 0.99(d, J=6.6Hz, 6H).6(279)

3-(2-((3- -1-(3,5-))))-4-(2-))

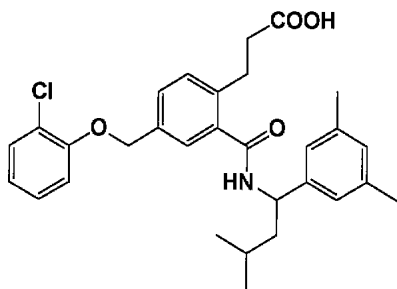


TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 7.44(s, 1H), 7.42(d, J=8.1Hz, 1H), 7.28(d, J=8.1Hz, 1H), 7.15-6.87(m, 4H), 6.96(s, 2H), 6.91(s, 1H), 6.31(d, J=8.7Hz, 1H), 5.16(m, 1H), 5.09(s, 2H), 3.08-2.97(m, 2H), 2.72(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.85-1.56(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(280)

3-(2-((3- -1-(3,5-))))-4-(2-))

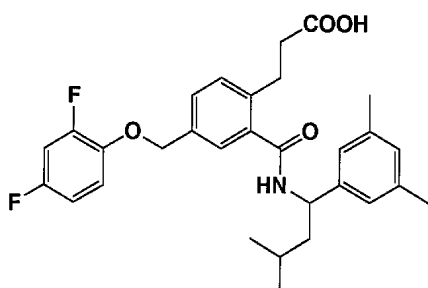


TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 7.52(s, 1H), 7.46-7.35(m, 2H), 7.28(d, J=8.1Hz, 1H), 7.21(m, 1H), 7.00-6.87(m, 2H), 6.95(s, 2H), 6.91(s, 1H), 6.29(d, J=8.4Hz, 1H), 5.16(m, 1H), 5.12(s, 2H), 3.09-2.97(m, 2H), 2.73(t, J=7.2 Hz, 2H), 2.31(s, 6H), 1.86-1.58(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(281)

3-(2-((3- -1-(3,5-))))-4-(2,4-))

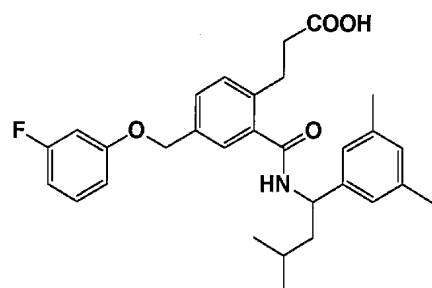


TLC: Rf 0.54(: =10:1);

NMR(300MHz, CDCl₃): 7.42(s, 1H), 7.41(d, J=7.8Hz, 1H), 7.29(d, J=7.8Hz, 1H), 7.00-6.73(m, 3H), 6.96(s, 2H), 6.91(s, 1H), 6.32(d, J=8.1Hz, 1H), 5.16(m, 1H), 5.05(s, 2H), 3.08-2.98(m, 2H), 2.73(t, J=6.6Hz, 2H), 2.31(s, 6H), 1.84-1.56(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(282)

3-(2-((3- -1-(3,5-))))-4-(3-))

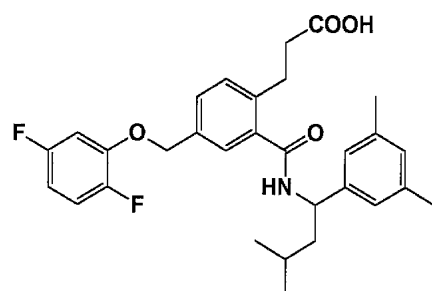


TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 7.42-7.18(m, 5H), 6.95(s, 2H), 6.91(s, 1H), 6.76-6.63(m, 2H), 6.30(d, J=8.7Hz, 1H), 5.16(m, 1H), 5.00(s, 2H), 3.07-2.96(m, 2H), 2.73(t, J=6.9Hz, 2H), 2.31(s, 6H), 1.84-1.54(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(283)

3-(2-((3- -1-(3,5-))))-4-(2,5-))

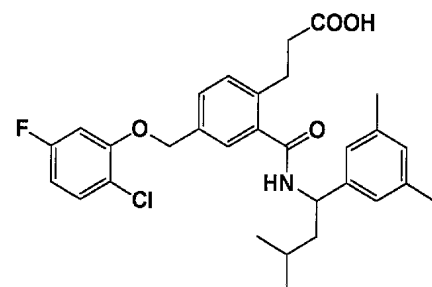


TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 0.99(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(t, J=7.00Hz, 2H), 3.03(m, 2H), 5.06(s, 2H), 5.16(m, 1H), 6.31(d, J=8.24Hz, 1H), 6.61(m, 1H), 6.73(m, 1H), 6.90(s, 1H), 6.96(s, 2H), 7.04(m, 1H), 7.29(d, J=8.24Hz, 1H), 7.41(m, 2H).

6(284)

3-(2-((3- -1-(3,5-))))-4-(2- -5-))



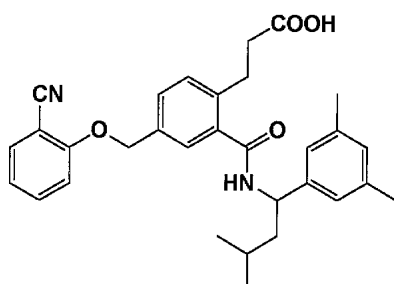
TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 7.49(s, 1H), 7.42(d, J=7.8Hz, 1H), 7.37-7.23(m, 2H), 6.96(s, 2H), 6.91(s, 1H), 6.74-6.62(m, 2H), 6.30(d, J=8.7Hz, 1H), 5.17(m, 1H), 5.08(s, 2H), 3.08-2.98(m, 2H), 2.73(t, J=7.5Hz, 2H), 2.31

(s, 6H), 1.85-1.58(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(285)

3-(2-((3- -1-(3,5-))))-4-(2-))

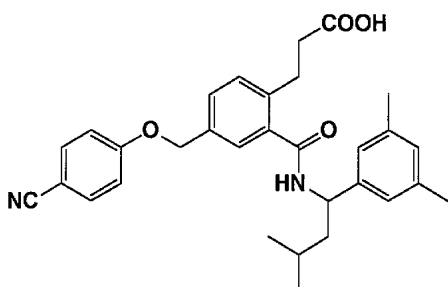


TLC: Rf 0.22(n- : =1:1);

NMR(300MHz, CDCl₃): 7.60-7.50(m, 3H), 7.39(m, 1H), 7.27(d, J=7.8Hz, 1H), 7.08-6.96(m, 4H), 6.90(brs, 1H), 6.53(brd, J=8.7Hz, 1H), 5.18(m, 1H), 5.16(s, 2H), 3.07-3.02(m, 2H), 2.76-2.71(m, 2H), 2.31(s, 6H), 1.90-1.57(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(286)

3-(2-((3- -1-(3,5-))))-4-(4-))

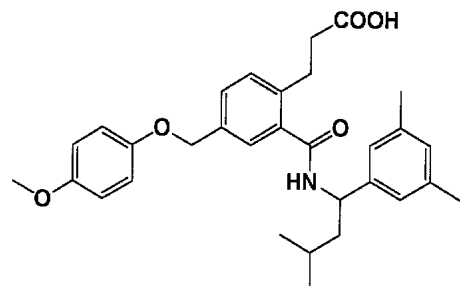


TLC: Rf 0.25(n- : =1:1);

NMR(300MHz, CDCl₃): 7.62-7.57(m, 2H), 7.41-7.38(m, 2H), 7.29(m, 1H), 7.02-6.98(m, 2H), 6.95(brs, 2H), 6.91(brs, 1H), 6.35(brd, J=8.4Hz, 1H), 5.17(m, 1H), 5.06(s, 2H), 3.06-3.01(m, 2H), 2.76-2.71(m, 2H), 2.31(s, 6H), 1.83-1.55(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(287)

3-(2-((3- -1-(3,5-))))-4-(4-))

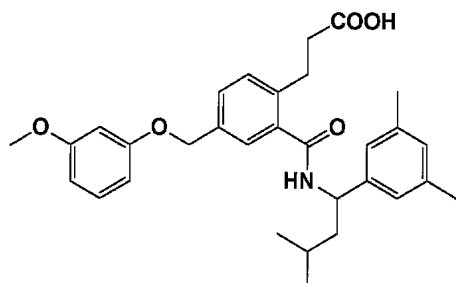


TLC: Rf 0.38(n- : =1:1);

NMR(300MHz, CDCl₃): 7.41-7.39(m, 2H), 7.27(d, J=7.8Hz, 1H), 6.95(brs, 2H), 6.91-6.82(m, 5H), 6.28(b rd, J=8.4Hz, 1H), 5.16(m, 1H), 4.97(s, 2H), 3.77(s, 3H), 3.06-3.00(m, 2H), 2.74-2.69(m, 2H), 2.31(s, 6H), 1.83-1.56(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(288)

3-(2-((3- -1-(3,5-))))-4-(3-))

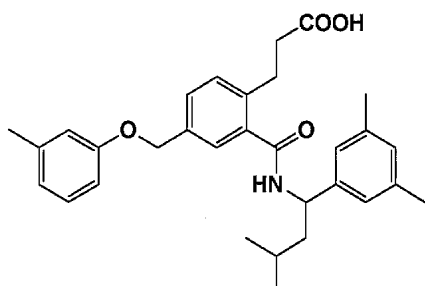


TLC: Rf 0.38(n- : =1:1);

NMR(300MHz, CDCl₃): 7.45-7.38(m, 2H), 7.31-7.11(m, 2H), 6.95(s, 2H), 6.90(s, 1H), 6.59-6.50(m, 3H), 6.28(d, J=8.4Hz, 1H), 5.17(m, 1H), 5.00(s, 2H), 3.79(s, 3H), 3.11-2.92(m, 2H), 2.72(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.85-1.52(m, 3H), 0.98(d, J=6.6Hz, 6H).

6(289)

3-(2-((3- -1-(3,5-))))-4-(3-))

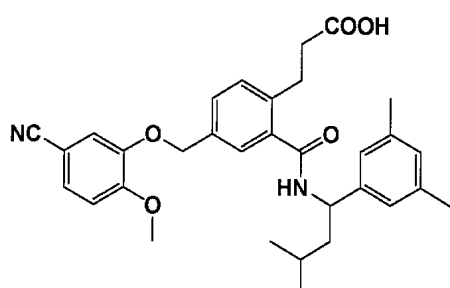


TLC: Rf 0.38(n- : =1:1);

NMR(300MHz, CDCl₃): 7.47-7.38(m, 2H), 7.29-7.11(m, 2H), 6.95(s, 2H), 6.90(s, 1H), 6.85-6.72(m, 3H), 6.29(d, J=9.0Hz, 1H), 5.16(m, 1H), 4.99(s, 2H), 3.11-2.92(m, 2H), 2.71(t, J=7.5Hz, 2H), 2.33(s, 3H), 2.30(s, 6H), 1.86-1.51(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(290)

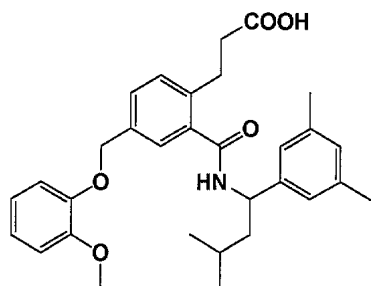
3-(2-((3- -1-(3,5-))))-4-(2- -5-))



TLC: Rf 0.33(n- : =1:1).

6(291)

3-(2-((3- -1-(3,5-)))-4-(2-))

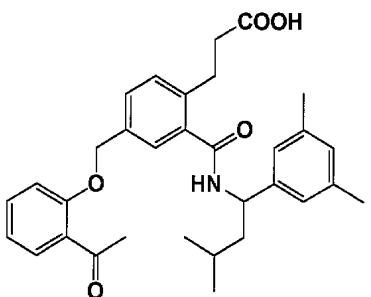


TLC: Rf 0.38(n- : =1:1);

NMR(300MHz, CDCl₃): 7.47-7.39(m, 2H), 7.25(m, 1H), 7.01-6.82(m, 7H), 6.28(d, J=8.7Hz, 1H), 5.17(m, 1H), 5.09(s, 2H), 3.86(s, 3H), 3.10-2.92(m, 2H), 2.71(t, J=7.4Hz, 2H), 2.30(s, 6H), 1.86-1.53(m, 3H), 0.98(d, J=5.7Hz, 6H).

6(292)

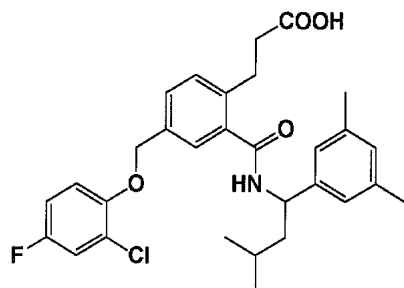
3-(2-((3- -1-(3,5-)))-4-(2-))



TLC: Rf 0.30(n- : =1:1).

6(293)

3-(2-((3- -1-(3,5-)))-4-(2- -4-))

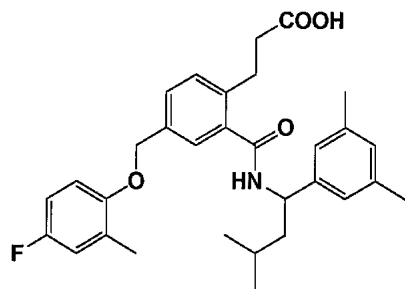


TLC: Rf 0.31(n- : =1:1);

NMR(300MHz, CDCl₃): 7.32(brs, 1H), 7.13-7.05(m, 3H), 6.94-6.91(m, 3H), 6.81-6.73(m, 3H), 5.10(m, 1H), 4.78(s, 2H), 2.84-2.79(m, 2H), 2.43-2.39(m, 2H), 2.21(s, 6H), 1.78-1.50(m, 3H), 0.89-0.87(m, 6H).

6(294)

3-(2-((3- -1-(3,5-)))-4-(2- -4-))

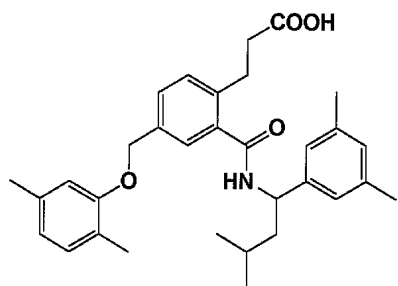


TLC: Rf 0.31(n- : =1:1);

NMR(300MHz, DMSO-d₆): 7.34-7.17(m, 3H), 7.04-6.93(m, 5H), 6.82(brs, 1H), 5.03(s, 2H), 4.97(m, 1H), 2.80-2.76(m, 2H), 2.43-2.39(m, 2H), 2.23(s, 6H), 2.17(s, 3H), 1.80-1.60(m, 2H), 1.41(m, 1H), 0.91(d, J=6.6Hz, 3H), 0.89(d, J=6.6Hz, 3H).

6(295)

3-(2-((3- -1-(3,5-))))-4-(2,5-))

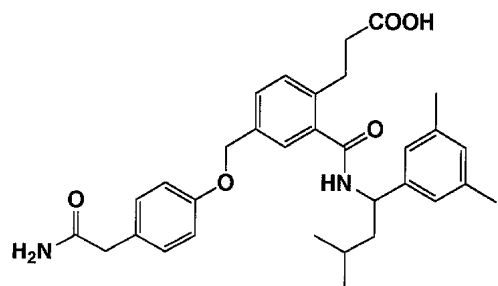


TLC: Rf 0.34(n- : =1:1);

NMR(300MHz, DMSO-d₆): 9.94(brs, 1H), 7.38-7.33(m, 2H), 7.28(d, J=7.8Hz, 1H), 7.01-6.99(m, 3H), 6.83(d, J=7.5Hz, 2H), 6.64(d, J=7.8Hz, 1H), 5.03(s, 2H), 4.97(m, 1H), 2.84-2.77(m, 2H), 2.44-2.40(m, 2H), 2.24(s, 6H), 2.12(s, 3H), 1.78(s, 3H), 1.77-1.58(m, 2H), 1.41(m, 1H), 0.91(d, J=6.6Hz, 3H), 0.89(d, J=6.6Hz, 3H).

6(296)

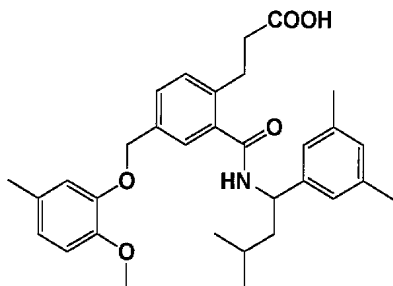
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.36(: =10:1).

6(297)

3-(2-((3- -1-(3,5-))))-4-(2- -5-))

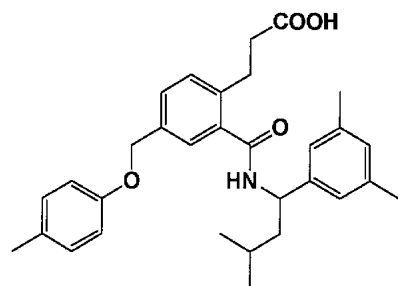


TLC: Rf 0.53(: =10:1);

NMR(300MHz, DMSO-d₆): 8.76(d, J=8.4Hz, 1H), 7.40(d, J=8.7Hz, 1H), 7.31(s, 1H), 7.30(d, J=8.7Hz, 1H), 6.95(s, 2H), 6.89(s, 1H), 6.84(d, J=8.7Hz, 1H), 6.83(s, 1H), 6.69(d, J=8.7Hz, 1H), 5.02(s, 2H), 4.96(m, 1H), 3.69(s, 3H), 2.84(t, J=8.1Hz, 2H), 2.45(t, J=8.1Hz, 2H), 2.24(s, 6H), 2.21(s, 3H), 1.78-1.57(m, 2H), 1.39(m, 1H), 0.92(d, J=6.3Hz, 3H), 0.89(d, J=6.3Hz, 3H).

6(298)

3-(2-((3- -1-(3,5-))) -4-(4-)))

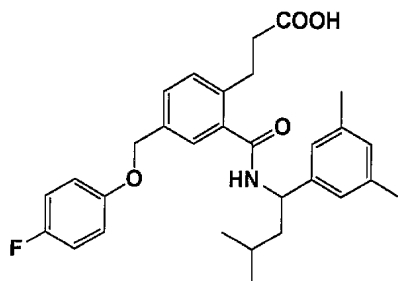


TLC: Rf 0.55(: =10:1);

NMR(300MHz, DMSO-d₆): 8.74(d, J=8.7Hz, 1H), 7.39(d, J=8.1Hz, 1H), 7.30(s, 1H), 7.29(d, J=8.1Hz, 1H), 7.08(d, J=8.4Hz, 2H), 6.95(s, 2H), 6.88(d, J=8.4Hz, 2H), 6.84(s, 1H), 5.05(s, 2H), 4.96(m, 1H), 2.83(t, J=8.1Hz, 2H), 2.44(t, J=8.1Hz, 2H), 2.24(s, 6H), 2.22(s, 3H), 1.80-1.55(m, 2H), 1.40(m, 1H), 0.91(d, J=6.3Hz, 3H), 0.89(d, J=6.3Hz, 3H).

6(299)

3-(2-((3- -1-(3,5-))) -4-(4-)))



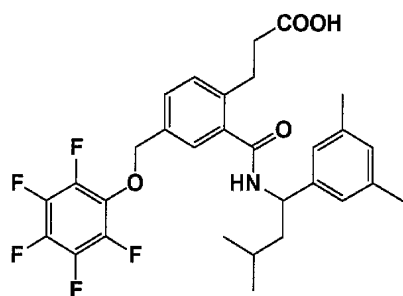
TLC: Rf 0.55(: =10:1);

NMR(300MHz, DMSO-d₆): 8.74(d, J=8.7Hz, 1H), 7.39(d, J=7.5Hz, 1H), 7.31(s, 1H), 7.29(d, J=7.5Hz, 1H), 7.16-7.06(m, 2H), 7.04-6.96(m, 2H), 6.95(s, 2H), 6.83(s, 1H), 5.06(s, 2H), 4.96(m, 1H), 2.83(t, J=8.1Hz, 2H), 2.44(t, J=8.1Hz, 2H), 2.24(s, 6H), 1.80-1.54(m, 2H), 1.40(m, 1H), 0.91(d, J=6.3Hz, 3H), 0.89(d, J=6.3Hz, 3H).

6(300)

6(303)

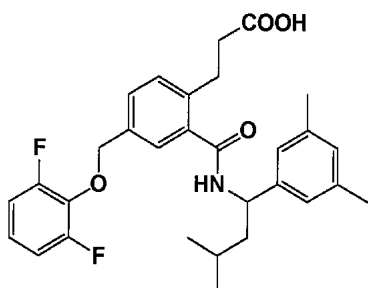
3-(2-((3- -1-(3,5-))) -4-(2,3,4,5,6-))



TLC: Rf 0.47(: =10:1).

6(304)

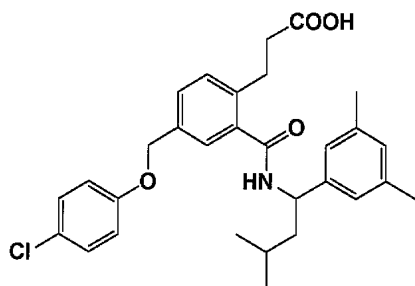
3-(2-((3- -1-(3,5-))) -4-(2,6-))



TLC: Rf 0.46(: =10:1).

6(305)

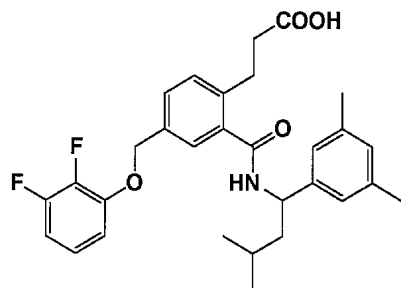
3-(2-((3- -1-(3,5-))) -4-(4-))



TLC: Rf 0.46(: =10:1).

6(306)

3-(2-((3- -1-(3,5-))) -4-(2,3-))

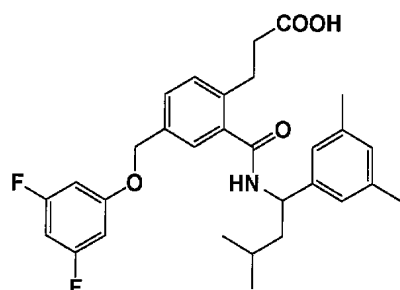


TLC: Rf 0.57(: =9:1);

NMR(300MHz, CDCl₃): 7.45-7.38(m, 2H), 7.29(d, J=7.2Hz, 1H), 7.02-6.89(m, 4H), 6.85-6.73(m, 2H), 6.32(d, J=8.7Hz, 1H), 5.17(m, 1H), 5.10(s, 2H), 3.07-2.95(m, 2H), 2.73(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.86-1.53(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(307)

3-(2-((3- -1-(3,5-))) -4-(3,5-))

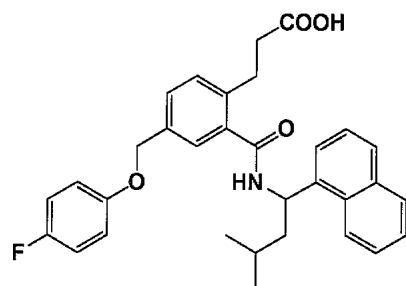


TLC: Rf 0.57(: =9:1);

NMR(300MHz, CDCl₃): 7.42-7.35(m, 2H), 7.30(d, J=7.5Hz, 1H), 6.95(s, 2H), 6.91(s, 1H), 6.54-6.40(m, 3H), 6.32(d, J=8.7Hz, 1H), 5.17(m, 1H), 4.97(s, 2H), 3.12-2.94(m, 2H), 2.73(t, J=7.3Hz, 2H), 2.31(s, 6H), 1.87-1.52(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(308)

3-(2-((3- -1-(-1-))) -4-(4-))

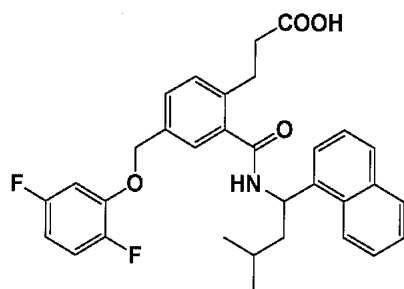


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 1.01(d, J=6.59Hz, 3H), 1.13(d, J=6.59Hz, 3H), 1.82(m, 1H), 1.97(m, 2H), 2.74(t, J=7.20Hz, 2H), 3.03(t, J=7.20Hz, 2H), 4.97(s, 2H), 6.14(m, 1H), 6.35(d, J=8.52Hz, 1H), 6.66(m, 3H), 7.42(m, 8H), 7.80(d, J=7.69Hz, 1H), 7.88(d, J=7.69Hz, 1H), 8.32(d, J=8.24Hz, 1H).

6(309)

3-(2-((3- -1-(-1-))))-4-(2,5-))

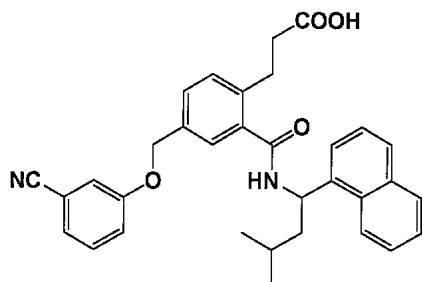


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 1.01(d, J=6.59Hz, 3H), 1.14(d, J=6.59Hz, 3H), 1.82(m, 1H), 1.97(t, J=7.14Hz, 2H), 2.73(t, J=7.42Hz, 2H), 3.03(t, J=7.42Hz, 2H), 5.02(s, 2H), 6.14(m, 1H), 6.38(d, J=8.52Hz, 1H), 6.60(m, 1H), 6.70(m, 1H), 7.02(m, 1H), 7.47(m, 7H), 7.80(d, J=7.97Hz, 1H), 7.87(d, J=7.42Hz, 1H), 8.32(d, J=8.79Hz, 1H).

6(310)

3-(2-((3- -1-(-1-))))-4-(3-))

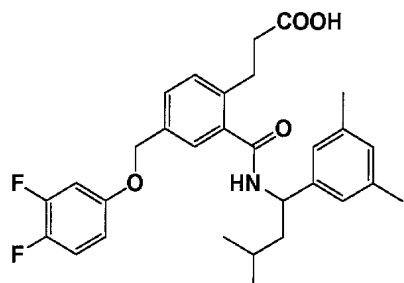


TLC: Rf 0.48(: =10:1);

NMR(300MHz, DMSO-d₆): 0.91(d, J=6.32Hz, 3H), 1.08(d, J=6.32Hz, 3H), 1.57(m, 1H), 1.89(m, 2H), 2.48(m, 2H), 2.85(m, 2H), 5.14(s, 2H), 5.94(m, 1H), 7.48(m, 12H), 7.81(d, J=8.24Hz, 1H), 7.94(d, J=7.97Hz, 1H), 8.22(d, J=8.52Hz, 1H).

6(311)

3-(2-((3- -1-(3,5-))))-4-(3,4-))

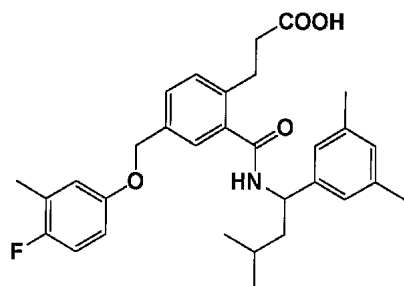


TLC: Rf 0.31(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.69(m, 3H), 2.31(s, 6H), 2.72(m, 2H), 3.02(m, 2H), 4.95(s, 2H), 5.17(m, 1H), 6.34(d, J=8.24Hz, 1H), 6.64(m, 1H), 6.77(ddd, J=11.81, 6.59, 3.02Hz, 1H), 6.91(s, 1H), 6.95(s, 2H), 7.07(m, 1H), 7.32(m, 3H).

6(312)

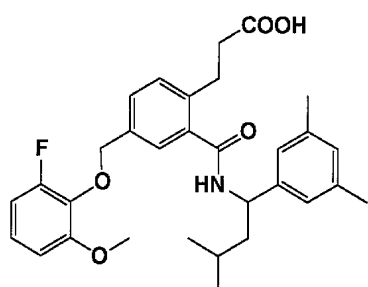
3-(2-((3-(1-(3,5-))))-4-(3- -4-)))



TLC: Rf 0.33(: =9:1).

6(313)

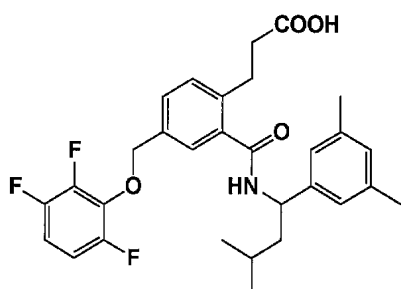
3-(2-((3-(1-(3,5-))))-4-(2- -6-)))



TLC: Rf 0.33(: =9:1).

6(314)

3-(2-((3-(1-(3,5-))))-4-(2,3,6-)))

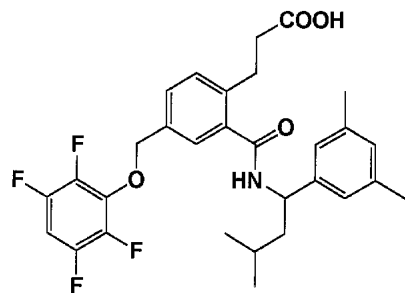


TLC: Rf 0.33(: =9:1);

NMR(300MHz, CDCl₃): 0.99(d, J=6.32Hz, 6H), 1.71(m, 3H), 2.31(s, 6H), 2.71(m, 2H), 3.03(m, 2H), 5.16(m, 3H), 6.27(d, J=8.52Hz, 1H), 6.83(m, 2H), 6.91(s, 1H), 6.96(s, 2H), 7.26(m, 1H), 7.40(m, 1H), 7.47(m, 1H).

6(315)

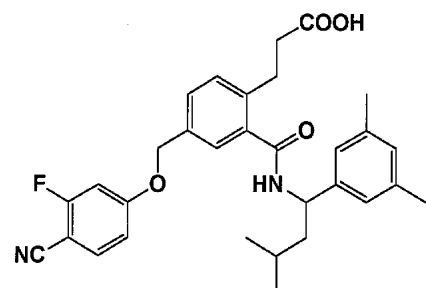
3-(2-((3-(1-(3,5-))))-4-(2,3,5,6-)))



TLC: Rf 0.33(: =9:1).

6(316)

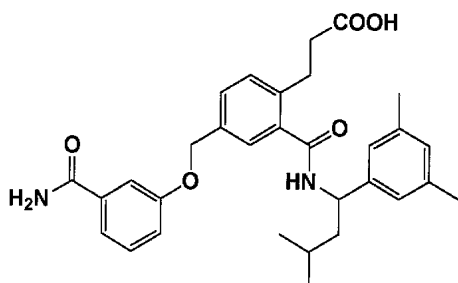
3-(2-((3- -1-(3,5-))))-4-(3- -4-))



TLC: Rf 0.55(n- : =1:1).

6(317)

3-(2-((3- -1-(3,5-))))-4-(3-))

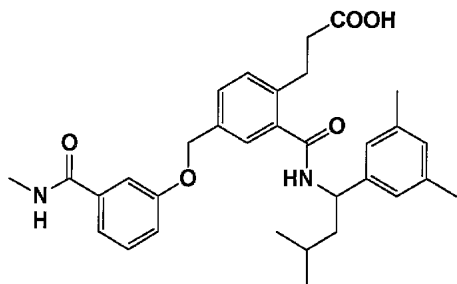


TLC: Rf 0.23(: =9:1);

NMR(300MHz, DMSO-d₆): 0.91(m, 6H), 1.39(m, 1H), 1.68(m, 2H), 2.24(s, 6H), 2.44(m, 2H), 2.84(t, J=7.97Hz, 2H), 4.97(m, 1H), 5.13(s, 2H), 6.83(s, 1H), 6.95(s, 2H), 7.14(m, 1H), 7.42(m, 7H), 7.94(s, 1H), 8.76(d, J=8.52Hz, 1H), 12.07(s, 1H).

6(318)

3-(2-((3- -1-(3,5-))))-4-(3-))

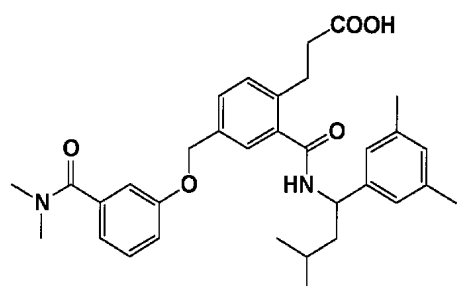


TLC: Rf 0.17(: =9:1);

NMR(300MHz, DMSO- d_6): 0.90(m, 6H), 1.40(m, 1H), 1.67(m, 2H), 2.24(s, 6H), 2.43(m, 2H), 2.76(d, J=4.40Hz, 3H), 2.84(m, 2H), 4.97(m, 1H), 5.13(s, 2H), 6.83(s, 1H), 6.95(s, 2H), 7.13(m, 1H), 7.39(m, 6H), 8.40(m, 1H), 8.75(d, J=8.52Hz, 1H), 12.08(s, 1H).

6(319)

3-(2-((3- -1-(3,5-))))-4-(3-))

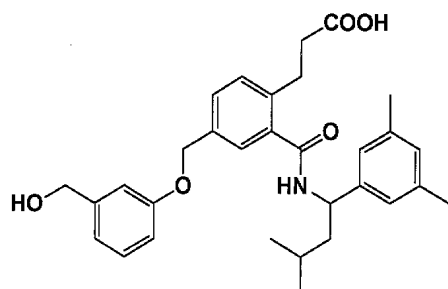


TLC: Rf 0.44(: =9:1);

NMR(300MHz, CDCl $_3$): 0.96(d, J=6.32Hz, 3H), 0.97(d, J=6.32Hz, 3H), 1.69(m, 3H), 2.29(s, 6H), 2.68(m, 2H), 2.98(m, 5H), 3.08(s, 3H), 4.98(s, 2H), 5.16(m, 1H), 6.85(m, 2H), 6.97(m, 5H), 7.28(m, 4H).

6(320)

3-(2-((3- -1-(3,5-))))-4-(3-))

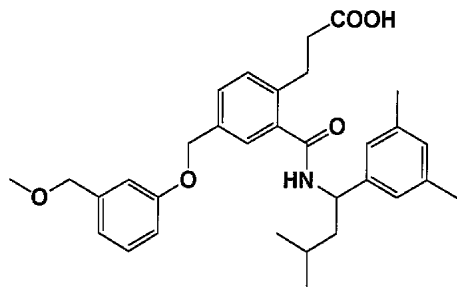


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl $_3$): 0.97(m, 6H), 1.69(m, 3H), 2.29(s, 6H), 2.67(m, 2H), 3.00(m, 2H), 4.62(s, 2H), 4.98(s, 2H), 5.16(m, 1H), 6.52(d, J=8.52Hz, 1H), 6.89(m, 6H), 7.24(m, 2H), 7.38(m, 2H).

6(321)

3-(2-((3- -1-(3,5-))))-4-(3-))

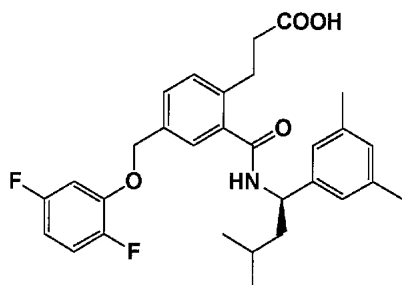


TLC: Rf 0.24(n- : =1:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(m, 2H), 3.03(m, 2H), 3.38(s, 3H), 4.43(s, 2H), 5.02(s, 2H), 5.17(m, 1H), 6.32(d, J=8.52Hz, 1H), 6.90(m, 6H), 7.26(m, 2H), 7.42(m, 2H).

6(322)

3-(2-(((1R)-3- -1-(3,5-))))-4-(2,5-))

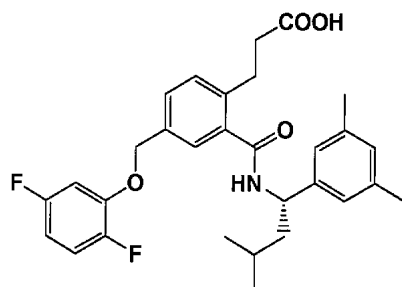


TLC: Rf 0.44(n- : =1:2);

NMR(300MHz, CDCl₃): 7.45-7.38(m, 2H), 7.29(d, J=7.8Hz, 1H), 7.04(m, 1H), 6.96(s, 2H), 6.91(s, 1H), 6.73(m, 1H), 6.62(m, 1H), 6.31(d, J=8.4Hz, 1H), 5.17(m, 1H), 5.06(s, 2H), 3.11-2.93(m, 2H), 2.72(t, J=6.0Hz, 2H), 2.31(s, 6H), 1.84-1.52(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(323)

3-(2-(((1S)-3- -1-(3,5-))))-4-(2,5-))

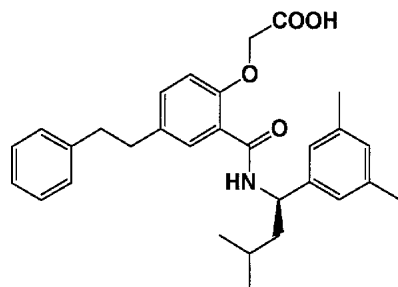


TLC: Rf 0.44(n- : =1:2);

NMR(300MHz, CDCl₃): 7.45-7.38(m, 2H), 7.29(d, J=7.8Hz, 1H), 7.04(m, 1H), 6.96(s, 2H), 6.91(s, 1H), 6.73(m, 1H), 6.62(m, 1H), 6.31(d, J=8.4Hz, 1H), 5.17(m, 1H), 5.06(s, 2H), 3.11-2.93(m, 2H), 2.72(t, J=6.0Hz, 2H), 2.31(s, 6H), 1.84-1.52(m, 3H), 0.99(d, J=6.3Hz, 6H).

6(324)

2-(2-(((1R)-3- -1-(3,5-))))-4-(2-))

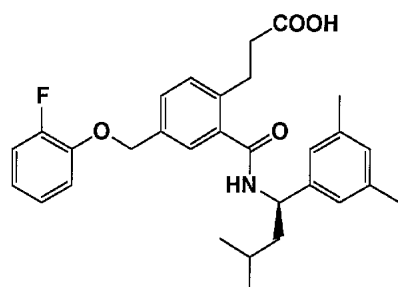


TLC: Rf 0.40(: =10:1);

NMR(300MHz, CDCl₃): 0.95(d, J=6.04Hz, 6H), 1.62(m, 2H), 1.82(m, 1H), 2.29(s, 6H), 2.87(s, 4H), 4.74(s, 2H), 5.19(m, 1H), 6.82(d, J=8.24Hz, 1H), 6.88(brs, 1H), 6.97(brs, 2H), 7.10(m, 2H), 7.18(m, 2H), 7.27(m, 2H), 7.47(m, 2H).

6(325)

3-(2-(((1R)-3- -1-(3,5-))) -4-(2-))

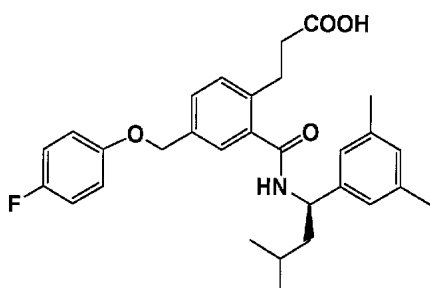


TLC: Rf 0.63(: =9:1);

NMR(300MHz, CDCl₃): 7.46-7.38(m, 2H), 7.28(d, J=7.8Hz, 1H), 7.14-6.88(m, 7H), 6.31(d, J=7.8Hz, 1H), 5.15(q, J=7.8Hz, 1H), 5.09(s, 2H), 3.12-2.95(m, 2H), 2.72(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.85-1.55(m, 3H), 0.98(d, J=5.7Hz, 6H).

6(326)

3-(2-(((1R)-3- -1-(3,5-))) -4-(4-))

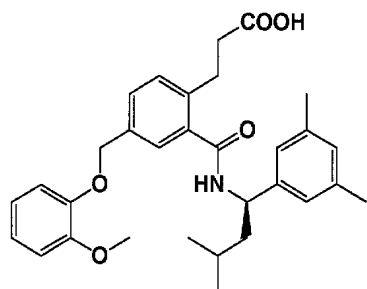


TLC: Rf 0.56(: =9:1);

NMR(300MHz, CDCl₃): 7.42-7.37(m, 2H), 7.30-7.26(m, 1H), 7.02-6.85(m, 7H), 6.30(d, J=8.1Hz, 1H), 5.16(q, J=8.1Hz, 1H), 4.98(s, 2H), 3.10-2.95(m, 2H), 2.73(t, J=6.9Hz, 2H), 2.30(s, 6H), 1.85-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

6(327)

3-(2-(((1R)-3- (3,5-))))-4-(2-))

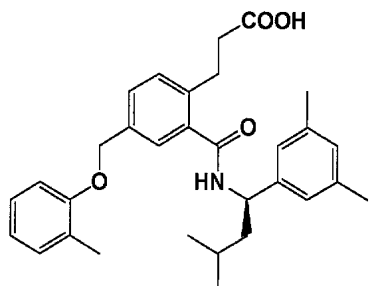


TLC: Rf 0.64(: =9:1);

NMR(300MHz, CDCl₃): 7.44-7.39(m, 2H), 7.28-7.23(m, 1H), 7.00-6.80(m, 7H), 6.32(d, J=8.7Hz, 1H), 5.15(q, J=8.7Hz, 1H), 5.09(s, 2H), 3.86(s, 3H), 3.10-2.95(m, 2H), 2.71(t, J=7.5Hz, 2H), 2.30(s, 6H), 1.80-1.55(m, 3H), 0.97(d, J=6.3Hz, 6H).

6(328)

3-(2-(((1R)-3- (3,5-))))-4-(2-))

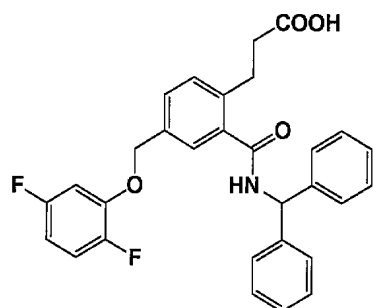


TLC: Rf 0.54(: =9:1);

NMR(300MHz, CDCl₃): 7.44-7.40(m, 2H), 7.30-7.26(m, 1H), 7.20-7.12(m, 2H), 6.96-6.83(m, 5H), 6.25(d, J=8.7Hz, 1H), 5.16(q, J=8.7Hz, 1H), 5.04(s, 2H), 3.13-2.95(m, 2H), 2.73(t, J=7.2Hz, 2H), 2.31(s, 6H), 2.27(s, 3H), 1.85-1.55(m, 3H), 0.99(d, J=6.3Hz, 3H), 0.98(d, J=6.3Hz, 3H).

6(329)

3-(2- (4-(2,5-))))

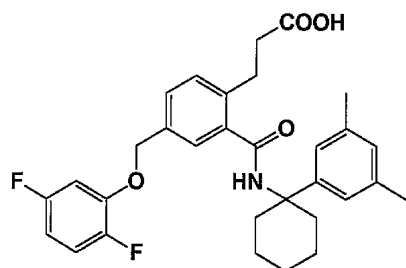


TLC: Rf 0.30(: =1:1);

NMR(300MHz, DMSO-d₆): 2.42(m, 2H), 2.72(m, 2H), 5.11(s, 2H), 6.43(d, J=9.07Hz, 1H), 6.74(m, 1H), 7.24(m, 10H), 7.38(m, J=6.87Hz, 2H), 7.54-7.52(m, 4H).

6(330)

3-(2-(((1-(3,5-

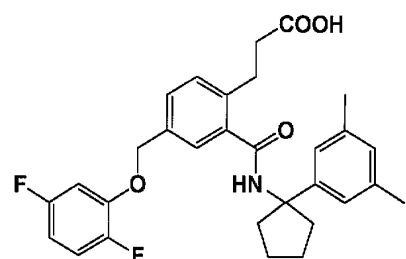


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 1.75(m, 8H), 2.31(s, 6H), 2.46(s, 2H), 2.71(t, J=7.42Hz, 2H), 3.05(t, J=7.42Hz, 2H), 5.12(s, 2H), 6.18(s, 1H), 6.63(m, 1H), 6.76(m, 1H), 6.88(s, 1H), 7.04(m, 1H), 7.08(s, 2H), 7.31(d, J=7.97Hz, 1H), 7.42(m, 1H), 7.55(s, 1H).

6(331)

3-(2-(((1-(3,5-

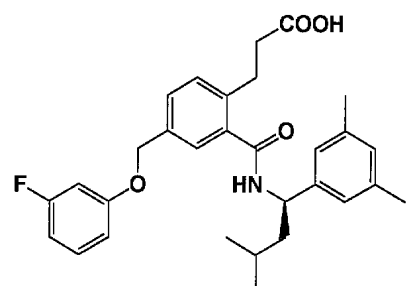


TLC: Rf 0.55(: =10:1);

NMR(300MHz, CDCl₃): 1.88(m, 4H), 2.16(m, 2H), 2.31(s, 6H), 2.46(m, 2H), 2.70(t, J=7.55Hz, 2H), 3.02(t, J=7.42Hz, 2H), 5.08(s, 2H), 6.63(m, 1H), 6.75(m, 1H), 6.88(s, 1H), 7.02(d, J=5.22Hz, 1H), 7.05(dd, J=5.36, 1.51Hz, 1H), 7.08(s, 2H), 7.29(d, J=7.69Hz, 1H), 7.40(m, 1H), 7.45(s, 1H).

6(332)

3-(2-(((1R)-3-

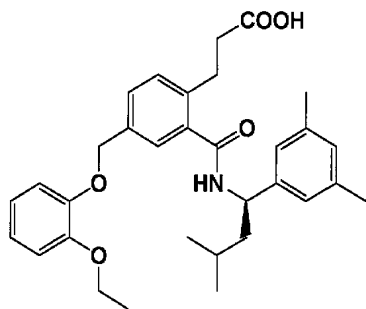


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(m, 2H), 3.03(m, 2H), 5.00(s, 2H), 5.16(m, 1H), 6.31(d, J=8.24Hz, 1H), 6.70(m, 3H), 6.91(s, 1H), 6.95(s, 2H), 7.25(m, 2H), 7.40(m, 2H).

6(333)

3-(2-(((1R)-3-

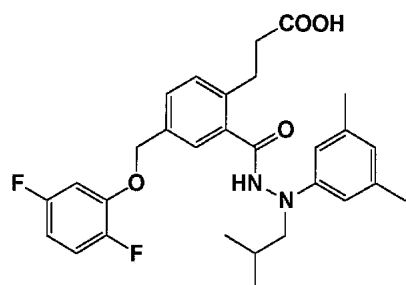


TLC: Rf 0.58(: =1:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.42(t, J=6.90Hz, 3H), 1.55-1.83(m, 3H), 2.31(s, 6H), 2.71(t, J=7.42Hz, 2H), 3.00-3.06(m, 2H), 4.09(q, J=6.90Hz, 2H), 5.08(s, 2H), 5.16(m, 1H), 6.32(d, J=8.24Hz, 1H), 6.84-6.95(m, 7H), 7.26(t, J=4.26Hz, 1H), 7.43-7.42(m, 2H).

6(334)

3-(2-((N-(2-)-N-(3,5-))))-4-(2,5-))

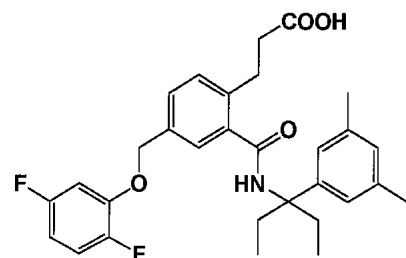


TLC: Rf 0.41(: =10:1);

NMR(300MHz, CDCl₃): 1.04(d, J=6.87Hz, 6H), 2.07(m, 1H), 2.26(s, 6H), 2.81(t, J=7.42Hz, 2H), 3.15(t, J=7.42Hz, 2H), 3.39(d, J=7.42Hz, 2H), 5.12(s, 2H), 6.52(s, 1H), 6.54(s, 2H), 6.63(m, 1H), 6.76(m, 1H), 7.05(m, 1H), 7.38(d, J=7.97Hz, 1H), 7.48(dd, J=7.97, 1.10Hz, 1H), 7.57(d, J=1.10Hz, 1H), 7.70(s, 1H).

6(335)

3-(2-(1- -1-(3,5-)))-4-(2,5-))

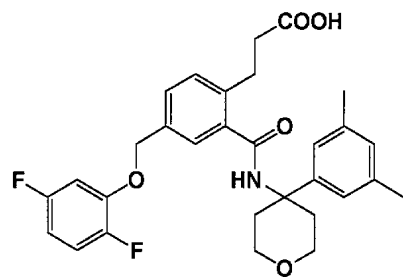


TLC: Rf 0.41(: =19:1);

NMR(300MHz, CDCl₃): 0.82(t, J=7.28Hz, 6H), 2.20(m, 4H), 2.31(s, 6H), 2.76(t, J=7.49Hz, 2H), 3.09(t, J=7.49Hz, 2H), 5.10(s, 2H), 6.13(s, 1H), 6.62(m, 1H), 6.76(m, 1H), 6.88(s, 1H), 6.97(s, 2H), 7.04(m, 1H), 7.32(d, J=7.97Hz, 1H), 7.43(dd, J=7.97, 1.37Hz, 1H), 7.54(d, J=1.37Hz, 1H).

6(336)

3-(2-(4-(3,5-)) -4-))-4-(2,5-))

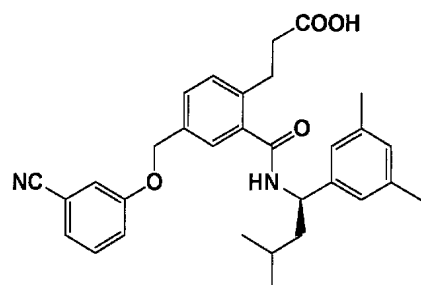


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 2.23(m, 2H), 2.32(s, 6H), 2.47(m, 2H), 2.71(t, J=7.28Hz, 2H), 3.03(t, J=7.28Hz, 2H), 3.84(m, 4H), 5.09(s, 2H), 6.50(s, 1H), 6.63(m, 1H), 6.75(m, 1H), 6.91(s, 1H), 7.05(m, 1H), 7.09(s, 2H), 7.30(d, J=7.80Hz, 1H), 7.43(dd, J=7.80, 1.10Hz, 1H), 7.54(d, J=1.10Hz, 1H).

6(337)

3-(2-(((1R)-3- -1-(3,5-))))-4-(3-))

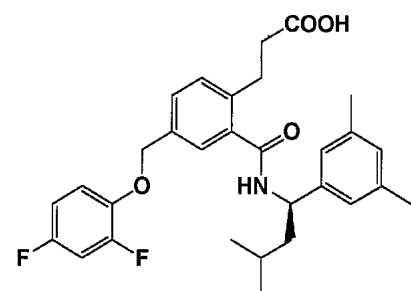


TLC: Rf 0.55(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.59Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(m, 2H), 3.03(m, 2H), 5.03(s, 2H), 5.17(m, 1H), 6.37(d, J=8.79Hz, 1H), 6.91(s, 1H), 6.96(s, 2H), 7.17(m, 2H), 7.28(m, 2H), 7.39(m, 3H).

6(338)

3-(2-(((1R)-3- -1-(3,5-))))-4-(2,4-))

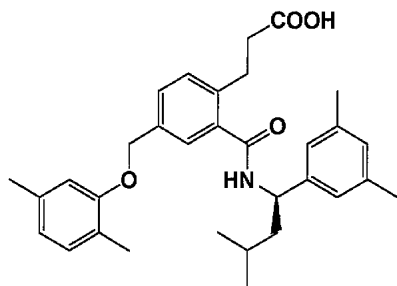


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 0.99(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.71(m, 2H), 3.03(m, 2H), 5.04(s, 2H), 5.16(m, 1H), 6.34(d, J=8.24Hz, 1H), 6.77(m, 1H), 6.90(m, 5H), 7.27(m, 1H), 7.39(m, 2H).

6(339)

3-(2-(((1R)-3- -1-(3,5-))))-4-(2,5-))

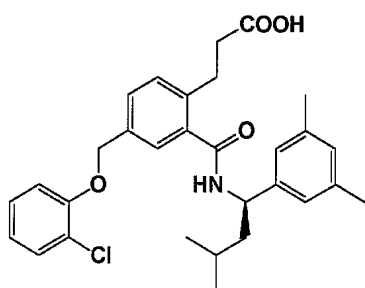


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.18Hz, 3H), 0.99(d, J=6.18Hz, 3H), 1.71(m, 3H), 2.22(s, 3H), 2.30(s, 6H), 2.31(s, 3H), 2.72(t, J=7.55Hz, 2H), 3.04(m, 2H), 5.02(s, 2H), 5.15(m, 1H), 6.27(d, J=8.79Hz, 1H), 6.71(m, 2H), 6.90(s, 1H), 6.95(s, 2H), 7.04(d, J=7.14Hz, 1H), 7.28(d, J=7.69Hz, 1H), 7.42(m, 2H).

6(340)

3-(2-(((1R)-3- -1-(3,5-))))-4-(2-))

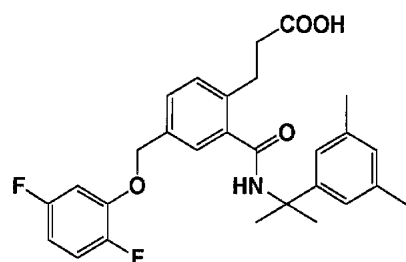


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.18Hz, 3H), 0.99(d, J=6.18Hz, 3H), 1.71(m, 3H), 2.31(s, 6H), 2.72(t, J=7.14Hz, 2H), 3.04(m, 2H), 5.12(s, 2H), 5.16(m, 1H), 6.32(d, J=8.52Hz, 1H), 6.94(m, 5H), 7.21(m, 1H), 7.28(d, J=7.97Hz, 1H), 7.41(m, 2H), 7.52(d, J=1.65Hz, 1H).

6(341)

3-(2-(1- -1-(3,5-)))-4-(2,5-))

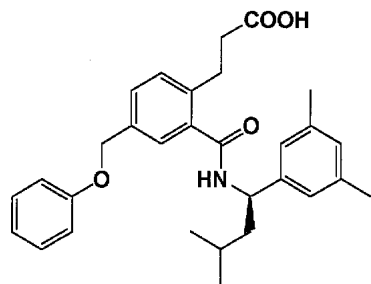


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 1.80(s, 6H), 2.32(s, 6H), 2.75(t, J=7.42Hz, 2H), 3.08(t, J=7.42Hz, 2H), 5.08(s, 2H), 6.33(s, 1H), 6.62(m, 1H), 6.75(m, 1H), 6.90(s, 1H), 7.03(m, 1H), 7.07(s, 2H), 7.30(d, J=7.98Hz, 1H), 7.41(d, J=7.98, 1.51Hz, 1H), 7.49(d, J=1.51Hz, 1H).

6(342)

3-(2-(((1R)-3- -1-(3,5-))))-4-

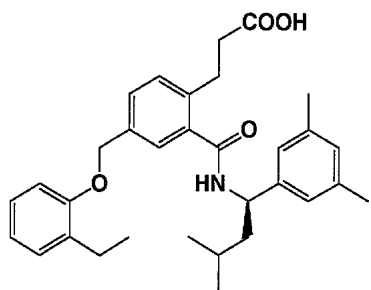


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.73(m, 2H), 3.03(m, 2H), 5.02(s, 2H), 5.16(m, 1H), 6.28(d, J=8.24Hz, 1H), 6.91(s, 1H), 6.97(m, 5H), 7.29(m, 3H), 7.42(m, 2H).

6(343)

3-(2-(((1R)-3- -1-(3,5-))))-4-(2-))

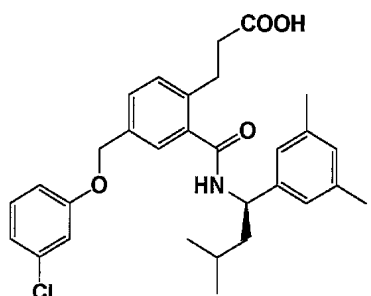


TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 0.98(dd, J=6.18, 2.61Hz, 6H), 1.20(t, J=7.55Hz, 3H), 1.70(m, 3H), 2.30(s, 6H), 2.71(m, 4H), 3.03(m, 2H), 5.05(s, 2H), 5.17(m, 1H), 6.23(d, J=8.52Hz, 1H), 6.90(m, 5H), 7.16(m, 2H), 7.28(d, J=8.52Hz, 1H), 7.42(m, 2H).

6(344)

3-(2-(((1R)-3- -1-(3,5-))))-4-(3-))

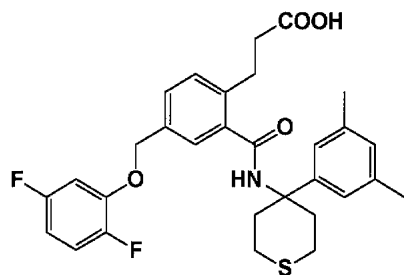


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 0.99(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(m, 2H), 3.03(m, 2H), 5.00(s, 2H), 5.17(m, 1H), 6.30(d, J=8.79Hz, 1H), 6.84(m, 1H), 6.91(s, 1H), 6.96(m, 4H), 7.24(m, 2H), 7.40(m, 2H).

6(345)

3-(2-(4-(3,5-)) -4-))-4-(2,5-))

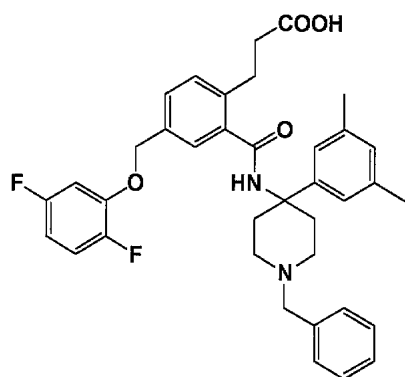


TLC: Rf 0.58(: =9:1);

NMR(300MHz, CDCl₃): 2.25(m, 2H), 2.31(s, 6H), 2.61(m, 2H), 2.76(m, 4H), 3.03(m, 4H), 5.11(s, 2H), 6.28(s, 1H), 6.63(m, 1H), 6.77(m, 1H), 6.90(s, 1H), 7.06(m, 3H), 7.32(d, J=7.97Hz, 1H), 7.44(dd, J=7.97, 1.80Hz, 1H), 7.57(d, J=1.80Hz, 1H).

6(346)

3-(2-(1- -4-(3,5-) -4-))-4-(2,5-))

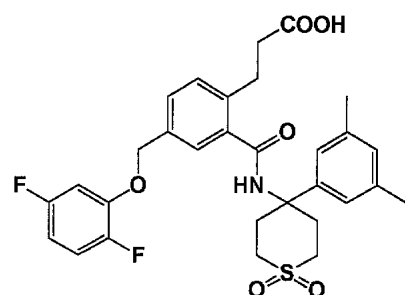


TLC: Rf 0.52(: =6:1);

NMR(300MHz, CD₃OD): 2.17(m, 2H), 2.29(s, 6H), 2.61(t, J=7.42Hz, 2H), 2.76(m, 2H), 2.95(m, 4H), 3.16(m, 2H), 4.06(s, 2H), 5.13(s, 2H), 6.64(m, 1H), 6.90(s, 1H), 6.97(m, 1H), 7.09(m, 3H), 7.43(m, 8H).

6(347)

3-(2-(1,1- -4-(3,5-) -4-))-4-(2,5-))

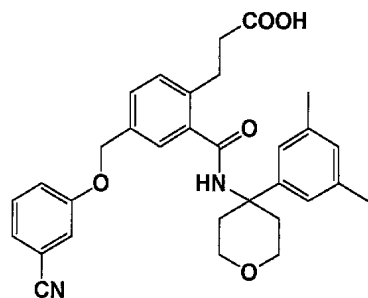


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 2.31(s, 6H), 2.75(m, 4H), 3.04(m, 6H), 3.40(m, 2H), 5.07(s, 2H), 6.62(m, 1H), 6.76(m, 1H), 6.94(s, 1H), 7.03(m, 4H), 7.30(d, J=7.97Hz, 1H), 7.45(m, 1H), 7.51(m, 1H).

6(348)

3-(2-((4-(3,5-)) -4-))-4-(3-))

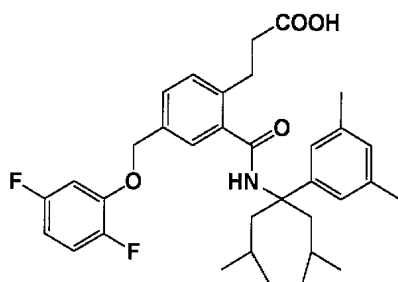


TLC: Rf 0.24(n- : : =100:100:1);

NMR(300MHz, DMSO-d₆): 1.93(m, 2H), 2.26(s, 6H), 2.39(m, 2H), 2.49(m, 2H), 2.86(m, 2H), 3.74(m, 4H), 5.20(s, 2H), 6.84(s, 1H), 7.04(s, 2H), 7.42(m, 7H), 8.59(s, 1H), 12.09(s, 1H).

6(349)

3-(2-((2,6- -4-(3,5-)-4-))-4-(2,5-))

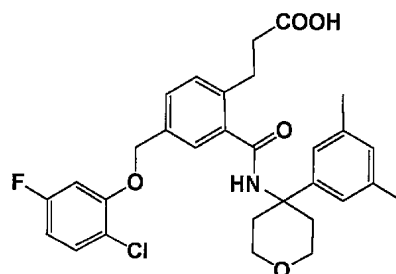


TLC: Rf 0.66(n- : : =1:1);

NMR(300MHz, CDCl₃): 0.75(d, J=6.59Hz, 6H), 0.84(d, J=6.59Hz, 6H), 1.58(m, 2H), 2.11(dd, J=14.28, 5.2 2Hz, 2H), 2.22(dd, J=14.28, 6.06Hz, 2H), 2.31(s, 6H), 2.79(t, J=7.55Hz, 2H), 3.11(t, J=7.55Hz, 2H), 5.12(s, 2H), 6.25(s, 1H), 6.62(m, 1H), 6.76(m, 1H), 6.86(s, 1H), 6.94(s, 2H), 7.04(m, 1H), 7.34(d, J=7.91Hz, 1H), 7.44(d d, J=7.91, 1.65Hz, 1H), 7.57(d, J=1.65Hz, 1H).

6(350)

3-(2-((4-(3,5-)) -4-))-4-(2- -5-))

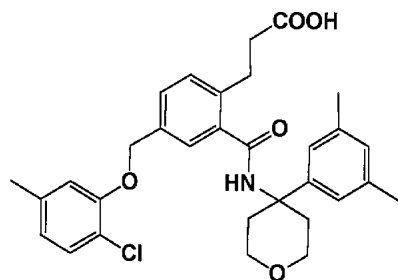


TLC: Rf 0.41(n- : : =100:100:1);

NMR(300MHz, CDCl₃): 2.24(m, 2H), 2.32(s, 6H), 2.46(m, 2H), 2.70(t, J=7.42Hz, 2H), 3.03(t, J=7.42Hz, 2 H), 3.83(m, 2H), 3.93(m, 2H), 5.12(s, 2H), 6.47(s, 1H), 6.67(m, 1H), 6.73(dd, J=10.03, 2.61Hz, 1H), 6.91(s, 1 H), 7.09(s, 2H), 7.33(m, 2H), 7.43(m, 1H), 7.62(d, J=1.65Hz, 1H).

6(351)

3-(2-((4-(3,5-)) -4-))-4-(2- -5-))

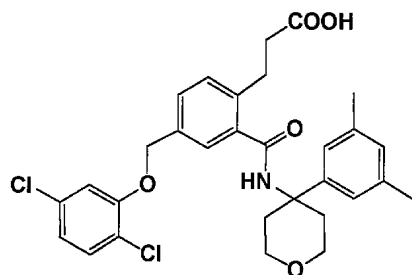


TLC: Rf 0.39(n- : : =100:100:1);

NMR(300MHz, CDCl₃): 2.23(m, 2H), 2.32(s, 6H), 2.33(s, 3H), 2.46(dd, J=13.32, 1.51Hz, 2H), 2.69(t, J=7.28Hz, 2H), 3.03(t, J=7.28Hz, 2H), 3.83(m, 2H), 3.92(m, 2H), 5.12 (s, 2H), 6.46(s, 1H), 6.75(m, 1H), 6.81(s, 1H), 6.90(s, 1H), 7.09(s, 2H), 7.27(m, 2H), 7.43(m, 1H), 7.66(s, 1H).

_____ 6(352)

3-(2-((4-(3,5-)) -4-))-4-(2,5-))

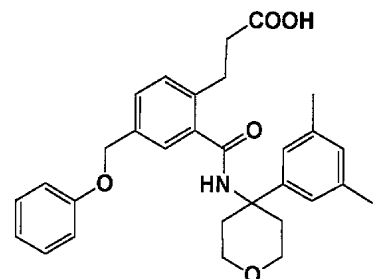


TLC: Rf 0.39(n- : : =100:100:1);

NMR(300MHz, CDCl₃): 2.25(m, 2H), 2.32(s, 6H), 2.47(m, 2H), 2.71(t, J=7.14Hz, 2H), 3.04(t, J=7.14Hz, 2H), 3.83(t, J=10.30Hz, 2H), 3.93(m, 2H), 5.12(s, 2H), 6.46(s, 1H), 6.95(m, 3H), 7.09(s, 2H), 7.32(m, 2H), 7.43(m, 1H), 7.63(d, J=1.65Hz, 1H).

_____ 6(353)

3-(2-((4-(3,5-)) -4-))-4-)

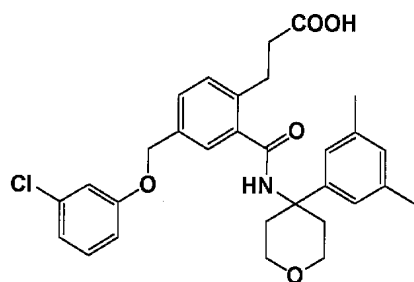


TLC: Rf 0.36(n- : : =100:100:1);

NMR(300MHz, CDCl₃): 2.23(m, 2H), 2.31(s, 6H), 2.46(m, 2H), 2.69(t, J=7.28Hz, 2H), 3.02(t, J=7.28Hz, 2H), 3.79(m, 2H), 3.91(m, 2H), 5.05(s, 2H), 6.48(s, 1H), 6.90(s, 1H), 6.99(m, 3H), 7.08(s, 2H), 7.30(m, 3H), 7.43(m, 1H), 7.50(s, 1H).

_____ 6(354)

3-(2-((4-(3,5-)) -4-))-4-(3-))

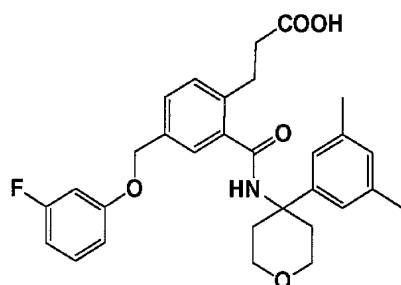


TLC: Rf 0.35(n- : : =100:100:1);

NMR(300MHz, CDCl₃): 2.24(m, 2H), 2.32(s, 6H), 2.48(d, J=15.11Hz, 2H), 2.71(t, J=7.14Hz, 2H), 3.02(t, J=7.14Hz, 2H), 3.79(m, 2H), 3.92(m, 2H), 5.03(s, 2H), 6.50(s, 1H), 6.85(m, 1H), 6.91(s, 1H), 6.97(m, 2H), 7.08(s, 2H), 7.22(m, 1H), 7.30(d, J=7.97Hz, 1H), 7.41(m, 1H), 7.47(s, 1H).

6(355)

3-(2-((4-(3,5-)) -4-))-4-(3-))

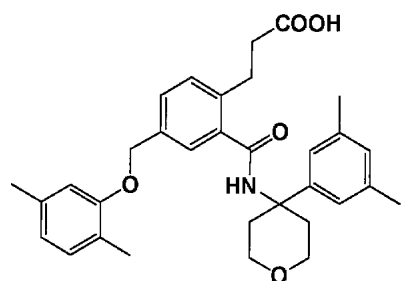


TLC: Rf 0.43(: =10:1);

NMR(300MHz, CDCl₃): 2.27(m, 8H), 2.45(m, 2H), 2.72(t, J=7.28Hz, 2H), 3.03(t, J=7.28Hz, 2H), 3.87(m, 4H), 5.04(s, 2H), 6.48(s, 1H), 6.72(m, 3H), 6.91(s, 1H), 7.09(s, 2H), 7.22(m, 1H), 7.30(d, J=8.24Hz, 1H), 7.43(d, J=7.97Hz, 1H), 7.48(s, 1H).

6(356)

3-(2-((4-(3,5-)) -4-))-4-(2,5-))

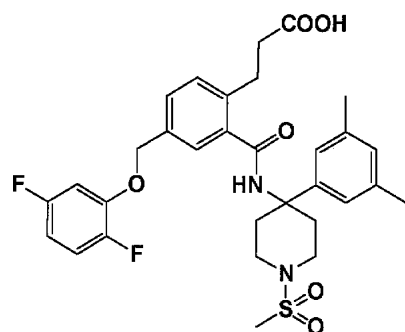


TLC: Rf 0.43(: =10:1);

NMR(300MHz, CDCl₃): 2.26(s, 6H), 2.28(m, 2H), 2.32(s, 6H), 2.44(m, 2H), 2.72(t, J=7.35Hz, 2H), 3.04(t, J=7.35Hz, 2H), 3.82(m, 2H), 3.93(m, 2H), 5.06(s, 2H), 6.40(s, 1H), 6.73(m, 2H), 6.91(s, 1H), 7.06(d, J=7.69Hz, 1H), 7.09(s, 2H), 7.30(d, J=7.69Hz, 1H), 7.45(dd, J=7.69, 1.65Hz, 1H), 7.56(d, J=1.65Hz, 1H).

6(357)

3-(2-((1- (3,5-) -4-))-4-(2,5-))

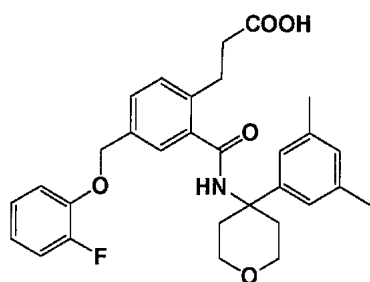


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 2.24(m, 2H), 2.32(s, 6H), 2.70(m, 4H), 2.78(s, 3H), 3.03(t, J=7.14Hz, 2H), 3.13(t, J=11.13Hz, 2H), 3.68(m, 2H), 5.07(s, 2H), 6.52(s, 1H), 6.63(m, 1H), 6.75(m, 1H), 6.92(s, 1H), 7.03(m, 1H), 7.08(s, 2H), 7.29(d, J=7.97Hz, 1H), 7.41(d, J=7.97Hz, 1H), 7.51(s, 1H).

6(358)

3-(2-((4-(3,5-) -4-))-4-(2-))

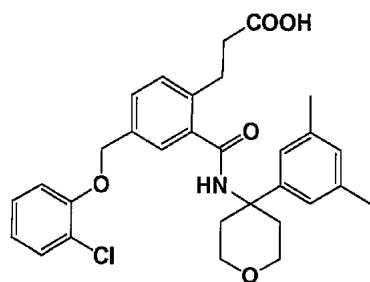


TLC: Rf 0.43(: =10:1);

NMR(300MHz, CDCl₃): 2.26(m, 2H), 2.32(s, 6H), 2.45(m, 2H), 2.71(t, J=7.14Hz, 2H), 3.03(t, J=7.14Hz, 2H), 3.82(m, 4H), 5.13(s, 2H), 6.48(s, 1H), 7.02(m, 7H), 7.30(d, J=7.69Hz, 1H), 7.44(d, J=7.69Hz, 1H), 7.56(s, 1H).

6(359)

3-(2-((4-(3,5-) -4-))-4-(2-))

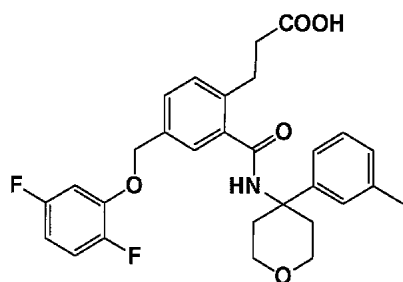


TLC: Rf 0.43(: =10:1);

NMR(300MHz, CDCl₃): 2.25(m, 2H), 2.32(s, 6H), 2.46(m, 2H), 2.70(t, J=7.42Hz, 2H), 3.03(t, J=7.42Hz, 2H), 3.85(m, 2H), 3.93(m, 2H), 5.15(s, 2H), 6.45(s, 1H), 6.91(s, 1H), 6.97(m, 2H), 7.09(s, 2H), 7.22(m, 1H), 7.30(d, J=7.97Hz, 1H), 7.42(m, 2H), 7.65(s, 1H).

6(360)

3-(2-((4-(3-)) -4-))-4-(2,5-))

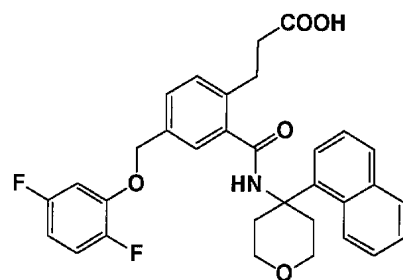


TLC: Rf 0.55(: =9:1);

NMR(300MHz, CDCl₃): 2.25(m, 2H), 2.36(s, 3H), 2.50(m, 2H), 2.70(t, J=7.21Hz, 2H), 3.01(t, J=7.21Hz, 2H), 3.88(m, 4H), 5.08(s, 2H), 6.57(s, 1H), 6.63(m, 1H), 6.76(m, 1H), 7.05(m, 2H), 7.27(m, 4H), 7.42(dd, J=8.12, 1.71Hz, 1H), 7.52(d, J=1.71Hz, 1H).

6(361)

3-(2-((4-(-1-)) -4-))-4-(2,5-))

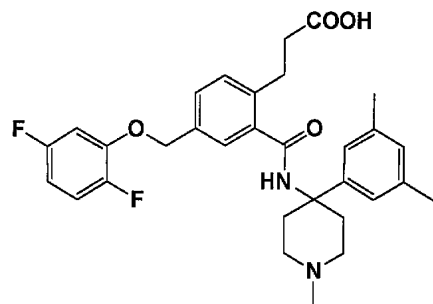


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 2.50(m, 4H), 2.85(m, 4H), 3.97(m, 4H), 5.02(s, 2H), 6.64(m, 1H), 6.73(m, 1H), 7.07(m, 2H), 7.23(d, J=7.69Hz, 1H), 7.43(m, 5H), 7.74(d, J=7.42Hz, 1H), 7.80(d, J=7.97Hz, 1H), 7.89(m, 1H), 8.42(m, 1H).

6(362)

3-(2-((1- -4-(3,5-)) -4-))-4-(2,5-))

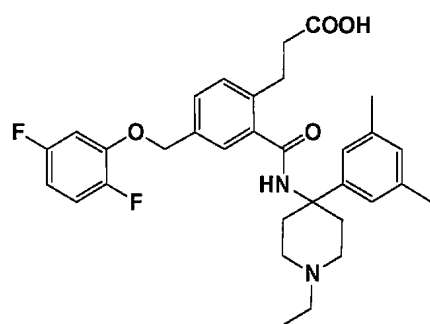


TLC: Rf 0.37(: :28% =40:10:1);

NMR(300MHz, DMSO-d₆): 1.85(m, 2H), 2.19(s, 3H), 2.25(s, 6H), 2.29(m, 2H), 2.46(m, 4H), 2.65(m, 2H), 2.89(t, J=7.83Hz, 2H), 5.21(s, 2H), 6.77(m, 1H), 6.82(s, 1H), 7.03(s, 2H), 7.29(m, 5H), 8.50(s, 1H).

6(363)

3-(2-((1- 4-(3,5-) -4-))-4-(2,5-))

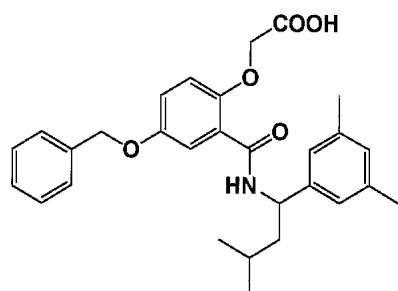


TLC: Rf 0.39(: =5:1);

NMR(300MHz, CD3OH): 1.29(t, J=7.28Hz, 3H), 2.20(m, 2H), 2.31(s, 6H), 2.62(t, J=7.14Hz, 2H), 2.85(m, 2H), 2.98(t, J=7.14Hz, 2H), 3.03(m, 4H), 3.34(m, 2H), 5.12(s, 2H), 6.63(m, 1H), 6.92(s, 1H), 6.96(m, 1H), 7.08(m, 1H), 7.14(s, 2H), 7.40(m, 3H).

6(364)

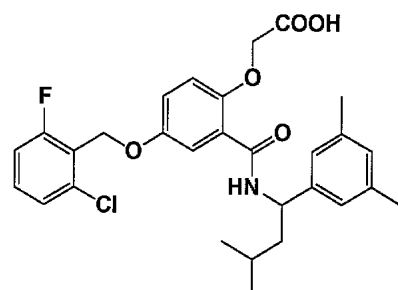
2-(2-((3- 1-(3,5-)))-4-)



TLC: Rf 0.42(: =10:1); NMR(300MHz, CDCl₃): 0.95(d, J=6.32Hz, 6H), 1.63(m, 2H), 1.84(m, 1H), 2.28(s, 6H), 4.73(s, 2H), 5.03(s, 2H), 5.19(m, 1H), 6.85(d, J=8.70Hz, 1H), 6.87(s, 1H), 6.98(s, 2H), 7.02(dd, J=8.70, 3.02Hz, 1H), 7.35(m, 5H), 7.57(d, J=3.02Hz, 1H), 7.94(d, J=8.52Hz, 1H).

6(365)

2-(2-((3- 1-(3,5-)))-4-(2- 6-))

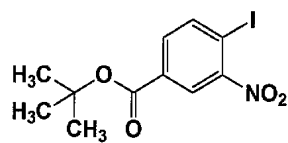


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CDCl₃): 0.96(d, J=6.32Hz, 6H), 1.66(m, 2H), 1.84(m, 1H), 2.30(s, 6H), 4.76(s, 2H), 5.16(s, 2H), 5.20(m, 1H), 7.01(m, 6H), 7.28(m, 2H), 7.49(d, J=3.02Hz, 1H), 7.54(d, J=7.97Hz, 1H).

9

4-(t-)-2-

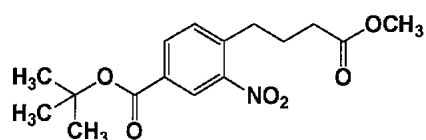


4- -3- 2 1 4- -2- t-

TLC: Rf 0.50(: =9:1).

10

4-[4-(t-)-2-]

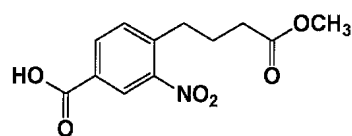


(, 19.6 g) (100 Mℓ) 가 , (0.1 Mℓ) 가 5 , (0.1 Mℓ) 가 5
 (45.6 g) (100 Mℓ) 가 가 . 3 4- ,
 4- .
 , 9 (34.9 g) (100 Mℓ) (1,1'- ()
) (II)(2.20 g) 가 . 4-
 (200 mmol) 15 가 가 30 , 60 30
 , 가 . ,
 (: =9:1 4:1) (24.47 g) .

TLC: Rf 0.24(: =9:1).

11

4-(4- -2-)

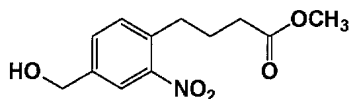


10 (24.4 g) (38 Mℓ) 가 , (29 Mℓ) 가 60
 1 . , () .
 . - (16.72 g) .

TLC: Rf 0.31(: =1:1).

12

4-(4- -2-)

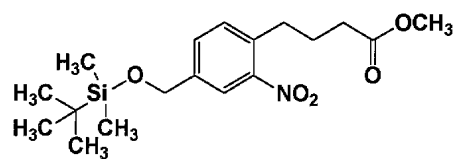


11 (15.58 g), (10.6 Mℓ) (60 Mℓ), (6.2 Mℓ) 가 1 (11. 1 g) (60 Mℓ) 가 , 30 , 1N 가 , (: =2:1 1:1) (12.26 g) .

TLC: Rf 0.46(: =1:1).

13

4-[4-(t-)-2-]

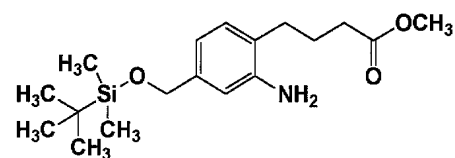


12 (4.078 g) (1.646 g) N,N- (20 Mℓ) t (2.664 g) 가 가 (6.02 g) .

TLC: Rf 0.69(: =3:1).

14

4-[2- -4-(t-)]

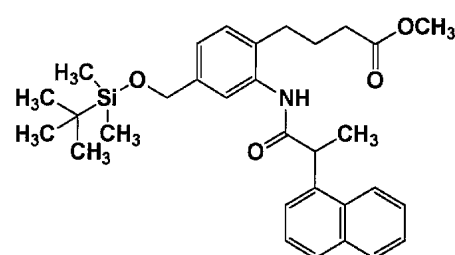


13 (6.02 g) (30 Mℓ) 10% (420 mg) 가 (5.43 g) 1 .

TLC: Rf 0.38(: =4:1).

15

4-[4-(t-)-2-[1-(1-)]]

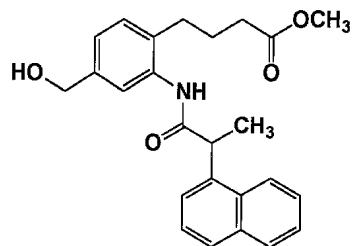


- 1- (3.52 g) (5.43 g) (2.60 Mℓ) (10 Mℓ) 가 (20 Mℓ) 30 가

TLC: Rf 0.39(: =4:1).

7

4-(2-((2-(-1-))))-4-)

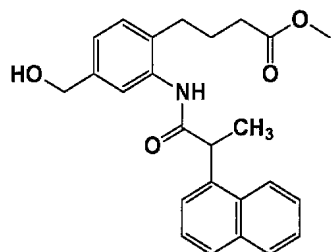


15 (30 Mℓ) 가 (24 Mℓ) 가 (5.02 g)

TLC: Rf 0.27(: =1:1).

7(a)

4-(2-(1-(1-)))-4-)

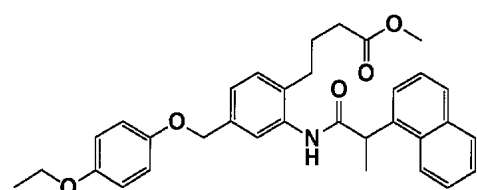


15 (30 Mℓ) 가 (24 Mℓ) 가 (5.02 g)

TLC: Rf 0.27(: =1:1).

7(b)

4-(2-((2-(-1-))))-4-(4-))



7(a)

5

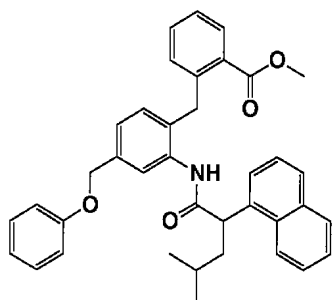
TLC: Rf 0.47(n- : =2:1).

7(b-1) 7(b-2)

7(b)

7(b-1)

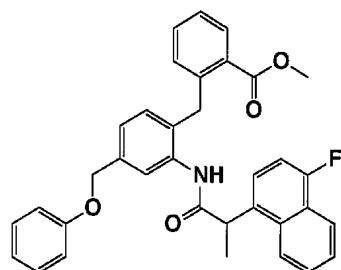
2-(2-((4- -2-(-1-)))-4-)



TLC: Rf 0.52(n- : =3:1).

7(b-2)

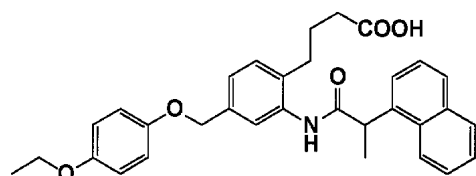
2-(2-((2-(4- -1-)))-4-)



TLC: Rf 0.56(n- : =2:1).

8

4-(2-((2-(-1-)))-4-(4-))



7(b)

3

TLC: Rf 0.45();

NMR(300MHz, DMSO-d₆): 12.08(br, 1H), 9.58(s, 1H), 8.32(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.38(bs, 1H), 7.16(m, 2H), 6.88(d, J=9.0Hz, 2H), 6.81(d, J=9.0Hz, 2H), 4.94(s, 2H),

4.71(q, J=6.9Hz, 1H), 3.91(q, J=6.9Hz, 2H), 2.43(m, 2H), 2.02(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H), 1.27(t, J=6.9Hz, 3H).

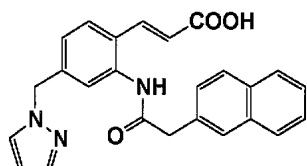
8(1) 8(136)

7(b-1), 7(b-2)

8

8(1)

(2E)-3-(2-((2-(
-2-))))-4-(
-1-))-2-

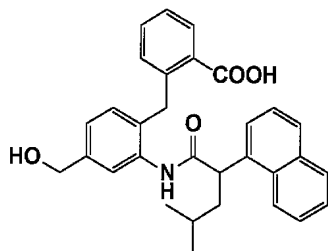


TLC: Rf 0.42(: =9:1);

NMR(300MHz, DMSO-d₆): 10.12(bs, 1H), 7.94-7.70(m, 7H), 7.57-7.41(m, 4H), 7.24(s, 1H), 7.02(d, J=8.1Hz, 1H), 6.46(d, J=16Hz, 1H), 6.25(t, J=2.0Hz, 1H), 5.32(s, 2H), 3.85(s, 2H).

8(2)

2-(2-((4-
-2-(
-1-))))-4-

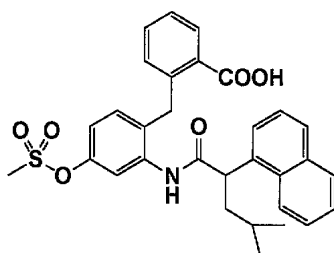


TLC: Rf 0.50(: =10:1);

NMR(300MHz, DMSO-d₆): 9.62(s, 1H), 8.32(d, J=8.4Hz, 1H), 7.91(d, J=8.1Hz, 1H), 7.78(d, J=8.7Hz, 1H), 7.75(m, 1H), 7.65-7.39(m, 4H), 7.34(s, 1H), 7.23(m, 2H), 7.00(d, J=8.1Hz, 1H), 6.88(d, J=7.8Hz, 1H), 6.79(m, 1H), 5.12(t, J=5.7Hz, 1H), 4.60(m, 1H), 4.41(d, J=5.4Hz, 1H), 4.30(d, J=16.2Hz, 1H), 4.18(d, J=16.2Hz, 1H), 1.93(m, 1H), 1.47(m, 2H), 0.92(d, J=6.3Hz, 3H), 0.80(d, J=6.3Hz, 3H).

8(3)

2-(2-((4-
-2-(
-1-))))-4-

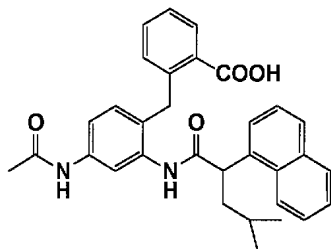


TLC: Rf 0.62(: =1:2);

NMR(300MHz, DMSO-d₆): 8.15(s, 1H), 8.10-7.98(m, 2H), 7.83 (m 1H), 7.67(m, 1H), 7.60-7.41(m, 3H), 7.32-7.20(m, 3H), 7.17-6.96(m, 3H), 6.81(d, J=7.2Hz, 1H), 4.37(t, J=7.5Hz, 1H), 4.08(d, J=16.2Hz, 1H), 3.80(d, J=16.2Hz, 1H), 3.18(s, 3H), 2.14(m, 1H), 1.73(m, 1H), 1.59(m, 1H), 0.96(d, J=6.6Hz, 3H), 0.89(d, J=6.6Hz, 3H).

8(4)

2-(2-((4- 2-(-1-)))-4-)

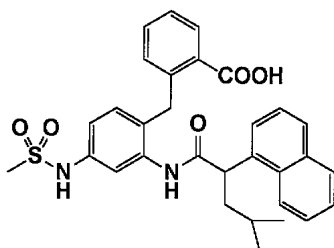


TLC: Rf 0.54(: =8:1);

NMR(300MHz, DMSO-d₆): 9.85(s, 1H), 9.67(bs, 1H), 8.32(d, J=8.4Hz, 1H), 7.91(d, J=7.8Hz, 1H), 7.78(d, J=8.1Hz, 1H), 7.73(m, 1H), 7.64-7.35(m, 6H), 7.28-7.15(m, 2H), 6.86(d, J=8.4Hz, 1H), 6.78(m, 1H), 4.60(m, 1H), 4.26(d, J=16.5Hz, 1H), 4.13(d, J=16.5Hz, 1H), 1.97(s, 3H), 1.92(m, 1H), 1.52-1.36(m, 2H), 0.92(d, J=6.3 Hz, 3H), 0.80(d, J=6.3Hz, 3H).

8(5)

2-(2-((4- 2-(-1-)))-4-)

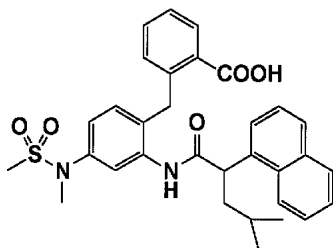


TLC: Rf 0.54(: =8:1);

NMR(300MHz, CDCl₃): 8.05(d, J=8.1Hz, 1H), 7.97(bs, 2H), 7.82(d, J=7.5Hz, 1H), 7.68(d, J=7.5Hz, 1H), 7.63(d, J=7.8Hz, 1H), 7.55-7.40(m, 2H), 7.35-7.21(m, 3H), 7.15(m, 1H), 7.08-6.96(m, 2H), 6.83(d, J=8.1Hz, 1H), 6.64(s, 1H), 4.38(t, J=7.2Hz, 1H), 4.02(d, J=16.5Hz, 1H), 3.78(d, J=16.5Hz, 1H), 2.99(s, 3H), 2.15(m, 1H), 1.75(m, 1H), 1.60(m, 1H), 0.96(d, J=6.6Hz, 3H), 0.89(d, J=6.6Hz, 3H).

8(6)

2-(2-((4- 2-(-1-)))-4-(N- -N-))

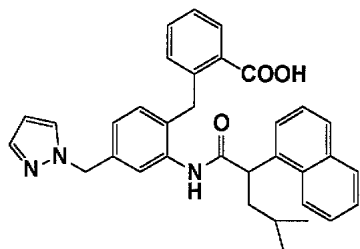


TLC: Rf 0.59(: =8:1);

NMR(300MHz, CDCl₃): 8.20(d, J=2.1Hz, 1H), 8.07(m, 1H), 8.04(m, 1H), 7.84(m, 1H), 7.69(d, J=6.9Hz, 1H), 7.59(d, J=7.5Hz, 1H), 7.55-7.44(m, 2H), 7.34-7.23(m, 3H), 7.18-7.10(m, 2H), 7.05(d, J=8.4Hz, 1H), 6.87(d, J=7.8Hz, 1H), 4.38(t, J=7.2Hz, 1H), 4.06(d, J=16.5Hz, 1H), 3.80(d, J=16.5Hz, 1H), 3.32(m, 3H), 2.89(s, 3H), 2.15(m, 1H), 1.76(m, 1H), 1.61(m, 1H), 0.97(d, J=6.6Hz, 3H), 0.91(d, J=6.6Hz, 3H).

_____ 8(7)

2-(2-((4- -2-(-1-)))-4-(-1-))

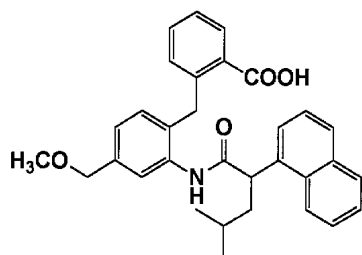


TLC: Rf 0.49(: =10:1);

NMR(300MHz, CDCl₃): 8.05(m, 1H), 7.99(s, 1H), 7.91(s, 1H), 7.80(m, 1H), 7.66(d, J=7.8Hz, 1H), 7.58(m, 2H), 7.49-7.38(m, 3H), 7.34-7.07(m, 4H), 6.82(d, J=7.5Hz, 1H), 6.77(d, J=7.5Hz, 1H), 6.63(d, J=8.1Hz, 1H), 6.29(s, 1H), 5.23(s, 2H), 4.33(m, 1H), 3.86(d, J=16.8Hz, 1H), 3.69(d, J=16.8Hz, 1H), 2.12(m, 1H), 1.69(m, 1H), 1.56(m, 1H), 0.93(d, J=6.3Hz, 3H), 0.86(d, J=6.3Hz, 3H).

_____ 8(8)

2-(2-((4- -2-(-1-)))-4-

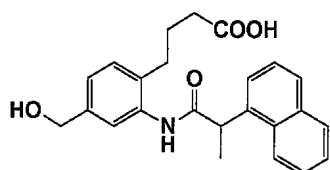


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 8.08(bs, 1H), 8.05(d, J=7.8Hz, 1H), 7.81(m, 1H), 7.72(m, 1H), 7.74-7.58(m, 2H), 7.46(m, 2H), 7.32-7.08(m, 4H), 7.03(m, 2H), 6.80(d, J=7.8Hz, 1H), 4.43(s, 2H), 4.34(t, J=7.5Hz, 1H), 4.07(d, J=16.5Hz, 1H), 3.84(d, J=16.5Hz, 1H), 3.39(s, 3H), 2.16(m, 1H), 1.72(m, 1H), 1.61(m, 1H), 0.96(d, J=6.3Hz, 3H), 0.89(d, J=6.3Hz, 3H).

_____ 8(9)

4-(2-((2-(-1-)))-4-

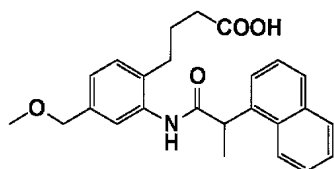


TLC: Rf 0.45();

NMR(300MHz, CD₃ OD): 8.30-8.25(m, 1H), 7.92-7.87(m, 1H), 7.81(t, J=8.1Hz, 1H), 7.67-7.44(m, 4H), 7.33(s, 1H), 7.13-7.08(m, 2H), 4.71(q, J=7.2Hz, 1H), 4.53(s, 2H), 2.34-2.27(m, 2H), 1.96(t, J=7.2Hz, 2H), 1.73(d, J=7.2Hz, 3H), 1.55-1.44(m, 2H).

8(10)

4-(2-((2-(-1-)))-4-)

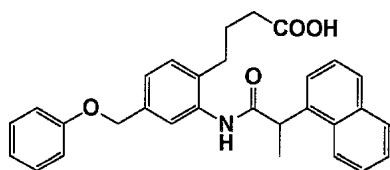


TLC: Rf 0.40(: =1:2);

NMR(300MHz, CDCl₃): 8.14(d, J=7.5Hz, 1H), 7.93-7.84(m, 3H), 7.63(d, J=6.6Hz, 1H), 7.58-7.50(m, 3H), 7.12(s, 1H), 7.02-6.95(m, 2H), 4.57(q, J=6.9Hz, 1H), 4.39(s, 2H), 3.36(s, 3H), 1.94-1.89(m, 4H), 1.83(d, J=6.9Hz, 3H), 1.30-1.20(m, 2H).

8(11)

4-(2-((2-(-1-)))-4-)

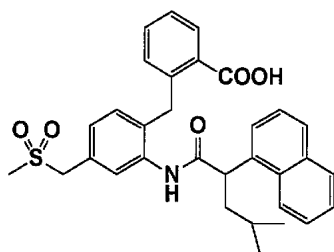


TLC: Rf 0.55(: =1:2);

NMR(300MHz, CDCl₃): 8.14(d, J=8.1Hz, 1H), 7.98(s, 1H), 7.93-7.84(m, 2H), 7.63(d, J=6.6Hz, 1H), 7.58-7.50(m, 3H), 7.30-7.24(m, 2H), 7.13-7.09(m, 2H), 7.01-6.92(m, 4H), 4.99(s, 2H), 4.57(q, J=7.2Hz, 1H), 1.95-1.90(m, 4H), 1.84(d, J=7.2Hz, 3H), 1.30-1.20(m, 2H).

8(12)

2-(2-((4- -2-(-1-)))-4-)

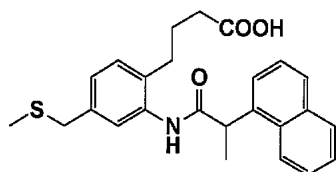


TLC: Rf 0.47(: =10:1);

NMR(300MHz, DMSO-d₆): 9.72(bs, 1H), 8.32(m, 1H), 7.91(d, J=7.8Hz, 1H), 7.79-7.74(m, 2H), 7.63-7.39(m, 5H), 7.30-7.20(m, 2H), 7.08(dd, J=7.8, 1.8Hz, 1H), 6.91(d, J=7.8Hz, 1H), 6.80(m, 1H), 4.63(dd, J=8.7, 4.8Hz, 1H), 4.40(s, 2H), 4.32(d, J=16.2Hz, 1H), 4.19(d, J=16.2Hz, 1H), 2.87(s, 3H), 1.91(m, 1H), 1.56-1.36(m, 2H), 0.92(d, J=6.3Hz, 1H), 0.80(d, J=6.3Hz, 1H).

8(13)

4-(2-((2-(-1-))))-4-)

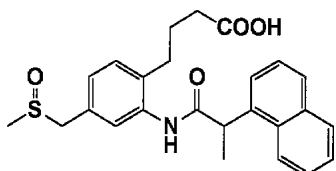


TLC: Rf 0.35(: =1:1);

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 9.45(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(dd, J=8.1, 1.5Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.47(m, 4H), 7.24(d, J=1.8Hz, 1H), 7.10(d, J=7.8Hz, 1H), 7.04(dd, J=7.8, 1.8Hz, 1H), 4.69(q, J=6.9Hz, 1H), 3.61(s, 2H), 2.40(m, 2H), 2.01(t, J=7.5Hz, 2H), 1.92(s, 3H), 1.60(d, J=6.9Hz, 3H), 1.55(m, 2H).

8(14)

4-(2-((2-(-1-))))-4-)

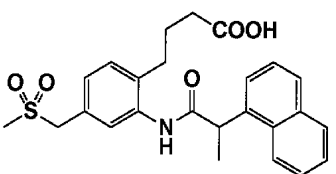


TLC: Rf 0.63(: =9:1);

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 9.52(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(dd, J=8.1, 1.5Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.63-7.47(m, 4H), 7.26(s, 1H), 7.16(d, J=7.8Hz, 1H), 7.05(dd, J=7.8, 1.5Hz, 1H), 4.70(q, J=6.9Hz, 1H), 4.05(d, J=12.6Hz, 1H), 3.85(d, J=12.6Hz, 1H), 2.45(s, 3H), 2.42(m, 2H), 2.02(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.55(m, 2H).

8(15)

4-(2-((2-(-1-))))-4-)

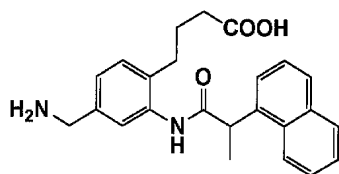


TLC: Rf 0.51();

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.55(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.63-7.47(m, 4H), 7.35(d, J=1.2Hz, 1H), 7.19(d, J=7.8Hz, 1H), 7.14(dd, J=7.8, 1.2Hz, 1H), 4.71(q, J=6.9 Hz, 1H), 4.40(s, 2H), 2.87(s, 3H), 2.42(m, 2H), 2.03(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.57(m, 2H).

8(16)

4-(2-((2-(-1-))))-4-)

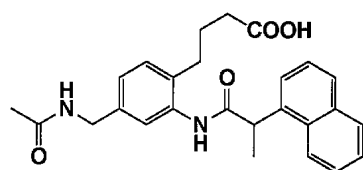


TLC: Rf 0.10(: =5:1);

NMR(300MHz, DMSO-d₆): 8.39(d, J=9.1Hz, 1H), 7.93(d, J=7.2Hz, 1H), 7.82(d, J=7.2Hz, 1H), 7.63-7.47(m, 4H), 7.45(brs, 1H), 7.14(s, 2H), 4.84(q, J=6.9Hz, 1H), 3.80(s, 2H), 2.59-2.42(m, 2H), 2.01(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.62-1.56(m, 2H).

8(17)

4-(2-((2-(-1-))))-4-

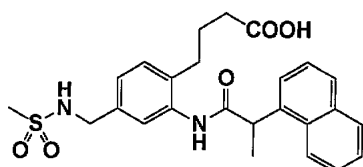


TLC: Rf 0.59(: =5:1);

NMR(300MHz, DMSO-d₆): 9.46(brs, 1H), 8.34-8.25(m, 2H), 7.94(d, J=8.1Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.61-7.47(m, 4H), 7.16(brs, 1H), 7.09(d, J=7.8Hz, 1H), 6.98(d, J=8.1Hz, 1H), 4.68(q, J=7.2Hz, 1H), 4.15(d, J=5.7Hz, 2H), 2.44-2.35(m, 2H), 2.00(t, J=7.2Hz, 2H), 1.82(s, 3H), 1.59(d, J=6.6Hz, 3H), 1.56-1.48(m, 2H).

8(18)

4-(2-((2-(-1-))))-4-

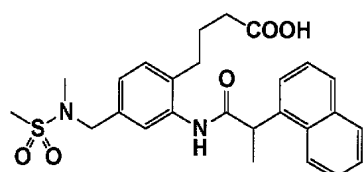


TLC: Rf 0.53(: =9:1);

NMR(300MHz, CDCl₃): 9.51(s, 1H), 8.32(d, J=8.1Hz, 1H), 7.95(d, J=7.8Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.48(m, 5H), 7.28(brs, 1H), 7.14(d, J=7.5Hz, 1H), 7.08(dd, J=7.8, 1.5Hz, 1H), 4.70(q, J=7.2Hz, 1H), 4.06(d, J=6.3Hz, 2H), 2.81(s, 3H), 2.45-2.37(m, 2H), 2.01(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.61-1.50(m, 2H).

8(19)

4-(2-((2-(-1-))))-4-(N- -N-))

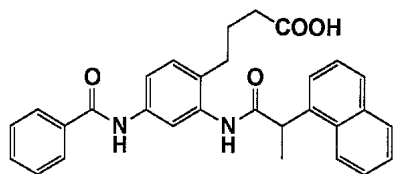


TLC: Rf 0.58(: =9:1);

NMR(300MHz, CDCl₃): 8.13(d, J=8.7Hz, 1H), 7.93-7.85(m, 3H), 7.63(d, J=6.3Hz, 1H), 7.59-7.49(m, 3H), 7.17(brs, 1H), 7.05(dd, J=8.1, 1.5Hz, 1H), 6.99(d, J=8.1Hz, 1H), 4.57(q, J=7.5Hz, 1H), 4.25(s, 2H), 2.83(s, 3H), 2.76(s, 3H), 1.94-1.89(m, 4H), 1.83(d, J=6.9Hz, 3H), 1.31-1.22(m, 2H).

8(20)

4-(2-((2-(-1-))))-4-)

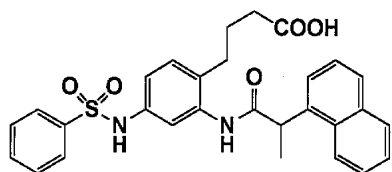


TLC: Rf 0.65();

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 10.18(s, 1H), 9.53(s, 1H), 8.33(d, J=8.7Hz, 1H), 7.96-7.91(m, 3H), 7.84(d, J=8.1Hz, 1H), 7.72(d, J=2.4Hz, 1H), 7.61-7.47(m, 8H), 7.13(d, J=8.4Hz, 1H), 4.71(q, J=7.2Hz, 1H), 2.44-2.38(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.62-1.55(m, 5H).

8(21)

4-(2-((2-(-1-))))-4-)

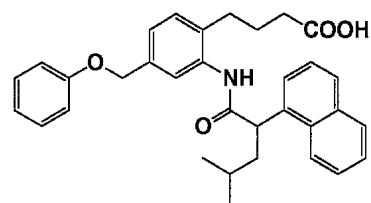


TLC: Rf 0.65();

NMR(300MHz, CDCl₃): 8.11-8.07(m, 1H), 7.92-7.76(m, 4H), 7.66(s, 1H), 7.59-7.47(m, 5H), 7.42-7.37(m, 2H), 7.16(s, 1H), 6.99(s, 1H), 6.92(dd, J=8.1, 2.1Hz, 1H), 6.84(d, J=8.4Hz, 1H), 4.56(q, J=7.2Hz, 1H), 1.91-1.78(m, 7H), 1.23-1.12(m, 2H).

8(22)

4-(2-((4- -2-(-1-))))-4-)

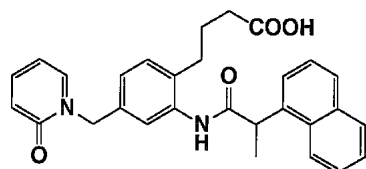


TLC: Rf 0.53(: =10:1);

NMR(300MHz, DMSO-d₆): 9.57(s, 1H), 8.39(d, J=8.1Hz, 1H), 7.93(d, J=7.8Hz, 1H), 7.81(d, J=8.1Hz, 1H), 7.66(d, J=7.2Hz, 1H), 7.63-7.44(m, 3H), 7.33-7.13(m, 5H), 6.98-6.87(m, 3H), 5.00(s, 2H), 4.67(m, 1H), 2.45-2.33(m, 2H), 2.12(m, 1H), 1.98-1.89(m, 2H), 1.66-1.43(m, 4H), 1.05(d, J=6.3Hz, 3H), 0.91(d, J=6.3Hz, 3H).

8(23)

4-(2-((2-(-1-))))-4-(2- -1-))

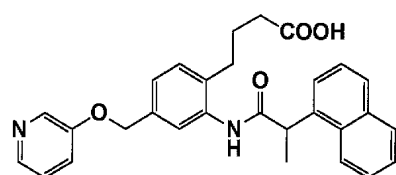


TLC: Rf 0.35();

NMR(300MHz, DMSO-d₆): 12.02(s, 1H), 9.47(s, 1H), 8.29(d, J=8.1Hz, 1H), 7.94(d, J=7.8Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.73(dd, J=6.6, 2.1Hz, 1H), 7.60-7.46(m, 4H), 7.42-7.34(m, 1H), 7.23(d, J=1.8Hz, 1H), 7.12(d, J=8.1Hz, 1H), 7.02(dd, J=8.1, 1.8Hz, 1H), 6.38(d, J=9.0Hz, 1H), 6.20(dt, J=1.5, 6.6Hz, 1H), 5.01(s, 2H), 4.69-4.64(m, 1H), 2.40-2.35(m, 2H), 1.99(t, J=7.5Hz, 2H), 1.59-1.50(m, 5H).

8(24)

4-(2-((2-(-1-))))-4-(-3-))

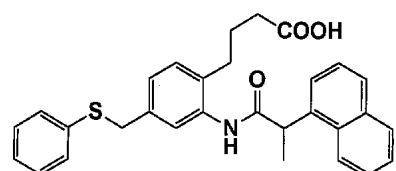


TLC: Rf 0.60();

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.52(s, 1H), 8.32-8.29(m, 2H), 8.15(d, J=4.5Hz, 1H), 7.95(dd, J=7.8, 1.5Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.61-7.40(m, 6H), 7.31(dd, J=8.1, 4.5Hz, 1H), 7.19(s, 2H), 5.10(s, 2H), 4.70(q, J=7.2Hz, 1H), 2.44-2.41(m, 2H), 2.02(t, J=7.2Hz, 2H), 1.61-1.51(m, 5H).

8(25)

4-(2-((2-(-1-))))-4-

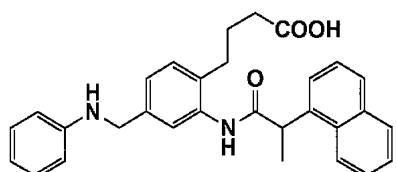


TLC: Rf 0.50(: =1:2);

NMR(300MHz, DMSO-d₆): 12.00(brs, 1H), 9.46(s, 1H), 8.30(d, J=8.4Hz, 1H), 7.95(d, J=7.8Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.61-7.47(m, 4H), 7.32-7.23(m, 5H), 7.17-7.12(m, 1H), 7.08(s, 2H), 4.68(q, J=6.9Hz, 1H), 4.17(s, 2H), 2.41-2.36(m, 2H), 2.00(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.56-1.51(m, 2H).

8(26)

4-(2-((2-(-1-))))-4-

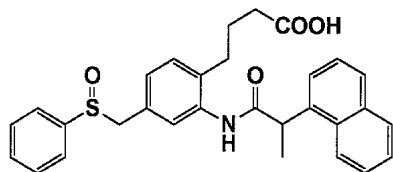


TLC: Rf 0.50(: =1:2);

NMR(300MHz, DMSO-d₆): 12.02(s, 1H), 9.44(s, 1H), 8.29(d, J=7.8Hz, 1H), 7.95-7.92(m, 1H), 7.82(d, J=7.8Hz, 1H), 7.58-7.46(m, 4H), 7.28(s, 1H), 7.09(s, 2H), 7.03-6.97(m, 2H), 6.53-6.45(m, 3H), 6.17(t, J=6.0Hz, 1H), 4.67(q, J=7.2Hz, 1H), 4.16(d, J=6.0Hz, 2H), 2.40-2.35(m, 2H), 2.00(t, J=7.5Hz, 2H), 1.60-1.50(m, 5H).

8(27)

4-(2-((2-(
-1-)))-4-

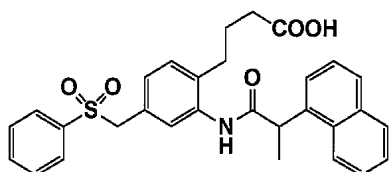


TLC: Rf 0.40() ;

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 9.50(s, 1H), 8.31(d, J=8.4Hz, 1H), 7.97-7.94(m, 1H), 7.84(d, J=7.8Hz, 1H), 7.60-7.46(m, 9H), 7.14-7.13(m, 1H), 7.06(d, J=7.8Hz, 1H), 6.86-6.83(m, 1H), 4.69(q, J=6.9Hz, 1H), 4.20-4.15(m, 1H), 3.98-3.92(m, 1H), 2.43-2.39(m, 2H), 2.03-1.98(m, 2H), 1.60-1.52(m, 5H).

8(28)

4-(2-((2-(
-1-)))-4-

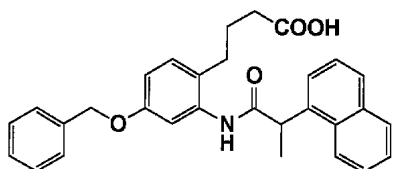


TLC: Rf 0.60() ;

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 9.50(s, 1H), 8.30(d, J=8.4Hz, 1H), 7.95(d, J=7.8Hz, 1H), 7.84(d, J=7.5Hz, 1H), 7.73-7.48(m, 9H), 7.15(s, 1H), 7.07(d, J=8.1Hz, 1H), 6.88(dd, J=7.8, 1.5Hz, 1H), 4.68(q, J=7.2 Hz, 1H), 4.58(s, 2H), 2.42-2.38(m, 2H), 1.99(t, J=7.5Hz, 2H), 1.60-1.51(m, 5H).

8(29)

4-(2-((2-(
-1-)))-4-

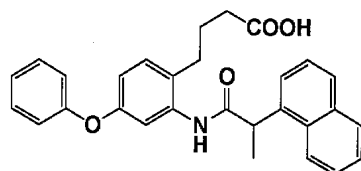


TLC: Rf 0.13(: =2:1);

NMR(300MHz, DMSO-d₆): 9.39(brs, 1H), 8.29(d, J=8.7Hz, 1H), 7.94(d, J=7.8Hz, 1H), 7.83(d, J=7.5Hz, 1H), 7.62-7.46(m, 4H), 7.43-7.28(m, 5H), 7.06-7.03(m, 2H), 6.77(dd, J=8.4, 2.4Hz, 1H), 5.01(s, 2H), 4.70(q, J=7.2Hz, 1H), 2.36(m, 2H), 2.01(t, J=7.2Hz, 2H), 1.59(d, J=7.2Hz, 3H), 1.56-1.45(m, 2H).

8(30)

4-(2-((2-(
-1-)))-4-

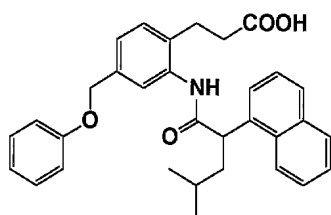


TLC: Rf 0.15(: =2:1);

NMR(300MHz, DMSO-d₆): 9.44(brs, 1H), 8.26(brd, J=8.1Hz, 1H), 7.93(m, 1H), 7.82(brd, J=7.5Hz, 1H), 7.59-7.45(m, 4H), 7.40-7.32(m, 2H), 7.15(d, J=8.4Hz, 1H), 7.13-7.08(m, 2H), 6.98-6.95(m, 2H), 6.76(dd, J=8.4, 2.7Hz, 1H), 4.69(q, J=6.9Hz, 1H), 2.45-2.40(m, 2H), 2.04(t, J=7.5Hz, 2H), 1.60-1.52(m, 2H), 1.57(d, J=6.9 Hz, 3H).

8(31)

3-(2-((4- -2-(-1-)))-4-)

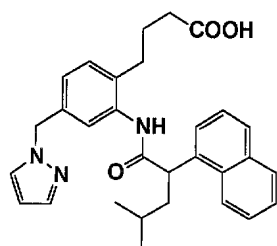


TLC: Rf 0.54(: =10:1);

NMR(300MHz, CDCl₃): 8.20(d, J=8.4Hz, 1H), 7.88-7.70(m, 4H), 7.63(d, J=6.9Hz, 1H), 7.56-7.40(m, 3H), 7.30-7.20(m, 2H), 7.13(m, 1H), 7.03(d, J=7.5Hz, 1H), 6.97-6.87(m, 3H), 4.96(s, 2H), 4.49(t, J=7.4Hz, 1H), 2.41-2.14(m, 5H), 2.01(m, 1H), 1.70(m, 1H), 1.00(d, J=6.6Hz, 3H), 0.97(d, J=6.6Hz, 3H).

8(32)

4-(2-((4- -2-(-1-)))-4-(-1-))

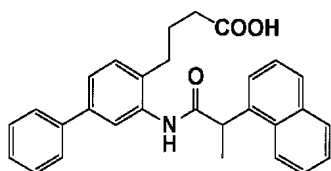


TLC: Rf 0.36(: =10:1);

NMR(300MHz, CDCl₃): 8.21(d, J=7.2Hz, 1H), 7.90(m, 2H), 7.82(d, J=7.8Hz, 1H), 7.64(d, J=7.2Hz, 1H), 7.58-7.40(m, 5H), 6.92(d, J=8.1Hz, 1H), 6.78(d, J=7.8Hz, 1H), 6.26(t, J=2.1Hz, 1H), 5.25(s, 2H), 4.55(t, J=7.2Hz, 1H), 2.30(m, 2H), 2.05-1.80(m, 3H), 1.68(m, 2H), 1.28(m, 2H), 1.01(d, J=6.6Hz, 3H), 0.96(d, J=6.6Hz, 3H).

8(33)

4-(2-((2-(-1-)))-4-)

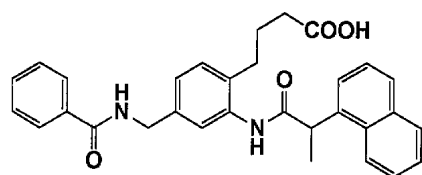


TLC: Rf 0.29(: =1:1);

NMR(300MHz, DMSO-d₆): 12.05(s, 1H), 9.54(s, 1H), 8.33(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.84(d, J=8.1Hz, 1H), 7.64-7.37(m, 10H), 7.33(m, 1H), 7.25(d, J=8.1Hz, 1H), 4.73(q, J=6.9Hz, 1H), 2.45(m, 2H), 2.05(t, J=7.2Hz, 2H), 1.62(d, J=6.9Hz, 3H), 1.60(m, 2H).

8(34)

4-(2-((2-(-1-))))-4-

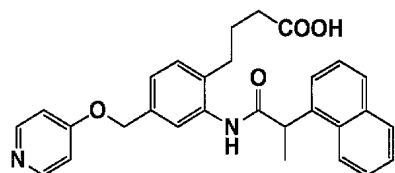


TLC: Rf 0.60();

NMR(300MHz, DMSO-d₆): 11.94(brs, 1H), 9.51(s, 1H), 9.00(t, J=6.9Hz, 1H), 8.29(d, J=7.2Hz, 1H), 7.95-7.80(m, 4H), 7.57-7.44(m, 7H), 7.24(s, 1H), 7.12-7.05(m, 2H), 4.68(q, J=6.9Hz, 1H), 4.39(d, J=6.9Hz, 2H), 4.2-2.37(m, 2H), 2.00(t, J=7.2Hz, 2H), 1.59-1.50(m, 5H).

8(35)

4-(2-((2-(-1-))))-4-(-4-))

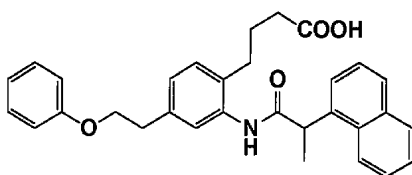


TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 12.03(brs, 1H), 9.54(s, 1H), 8.52(d, J=6.9Hz, 2H), 8.31(d, J=7.8Hz, 1H), 7.94(dd, J=7.8, 1.5Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.61-7.47(m, 4H), 7.43(s, 1H), 7.25-7.22(m, 4H), 5.22(s, 2H), 4.71(q, J=7.2Hz, 1H), 2.46-2.44(m, 2H), 2.03(t, J=7.2Hz, 2H), 1.69-1.51(m, 5H).

8(36)

4-(2-((2-(-1-))))-4-(2-))

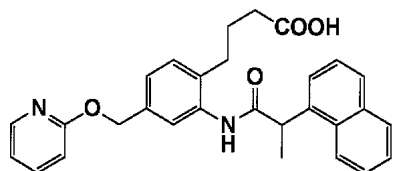


TLC: Rf 0.22(: =1:1);

NMR(300MHz, CD₃OD): 8.28(brd, J=8.7Hz, 1H), 7.91(brd, J=8.1Hz, 1H), 7.82(brd, J=8.4Hz, 1H), 7.65(brd, J=6.6Hz, 1H), 7.60-7.47(m, 4H), 7.29(brs, 1H), 7.22(brt, J=8.7Hz, 2H), 7.09(brs, 2H), 6.90-6.85(m, 3H), 4.72(q, J=7.2Hz, 1H), 4.13(t, J=6.9Hz, 2H), 3.02-2.97(m, 2H), 2.33-2.28(m, 2H), 1.96-1.94(m, 2H), 1.73(d, J=7.2Hz, 3H), 1.53-1.48(m, 2H).

8(37)

4-(2-((2-(1-)))-4-(-2-))

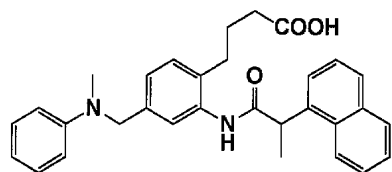


TLC: Rf 0.35(: =1:2);

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.50(s, 1H), 8.30(d, J=8.7Hz, 1H), 8.15(dd, J=5.4, 1.5Hz, 1H), 7.95(d, J=7.8Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.7.-7.67(m, 1H), 7.61-7.47(m, 4H), 7.36(s, 1H), 7.21-7.14(m, 2H), 6.99-6.95(m, 1H), 6.83(d, J=8.4Hz, 1H), 5.26(s, 2H), 4.69(q, J=7.2Hz, 1H), 2.44-2.39(m, 2H), 2.02(t, J=7.8Hz, 2H), 1.61-1.53(m, 5H).

8(38)

4-(2-((2-(1-)))-4-(N- -N-))

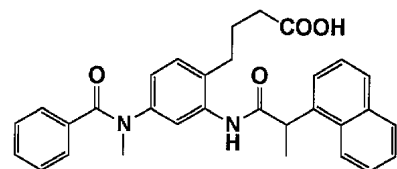


TLC: Rf 0.50(: =1:2);

NMR(300MHz, DMSO-d₆): 12.02(s, 1H), 9.43(s, 1H), 8.28(d, J=7.5Hz, 1H), 7.95-7.92(m, 1H), 7.82(d, J=8.1Hz, 1H), 7.56-7.45(m, 4H), 7.18-7.07(m, 4H), 6.93(dd, J=7.8, 1.5Hz, 1H), 6.67(d, J=8.1Hz, 2H), 6.59(t, J=7.2Hz, 1H), 4.66(q, J=7.2Hz, 1H), 4.47(s, 2H), 2.95(s, 3H), 2.40-2.34(m, 2H), 2.00(t, J=7.5Hz, 2H), 1.58-1.51(m, 5H).

8(39)

4-(2-((2-(1-)))-4-(N- -N-))

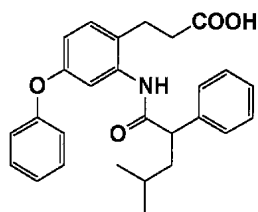


TLC: Rf 0.35(: =1:2);

NMR(300MHz, CDCl₃): 8.12(m, 1H), 7.95-7.82(m, 3H), 7.63-7.48(m, 4H), 7.33-7.10(m, 6H), 6.73(d, J=7.8Hz, 1H), 6.52(m, 1H), 4.57(q, J=7.2Hz, 1H), 3.45(s, 3H), 1.95-1.75(m, 4H), 1.81(d, J=7.2Hz, 3H), 1.20(m, 2H).

8(40)

3-(2-((4- -2-))-4-)

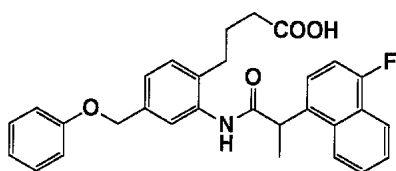


TLC: Rf 0.71(: =10:1);

NMR(300MHz, CDCl₃): 8.16(s, 1H), 7.51(d, J=2.1Hz, 1H), 7.44-7.20(m, 7H), 7.12-6.93(m, 4H), 6.70(dd, J=8.4, 2.7Hz, 1H), 3.67(t, J=7.8Hz, 1H), 2.65-2.45(m, 4H), 2.09(m, 1H), 1.79(m, 1H), 1.52(m, 1H), 0.93(d, J=6.6Hz, 3H), 0.92(d, J=6.6Hz, 3H).

8(41)

4-(2-((2-(4- -1-))-4-)

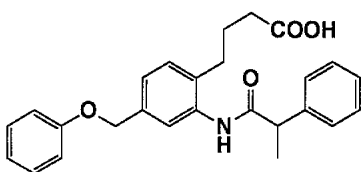


TLC: Rf 0.55(: =9:1);

NMR(300MHz, DMSO-d₆): 9.57(brs, 1H), 8.36(d, J=7.2Hz, 1H), 8.09(m, 1H), 7.72-7.62(m, 2H), 7.55(dd, J=7.8, 5.4Hz, 1H), 7.38-7.23(m, 4H), 7.18(brs, 2H), 7.09-6.89(m, 3H), 5.01(s, 2H), 4.66(q, J=6.6Hz, 1H), 2.48-2.40(m, 2H), 2.04-1.99(m, 2H), 1.59(d, J=6.6Hz, 3H), 1.58-1.53(m, 2H).

8(42)

4-(2-((2-))-4-)

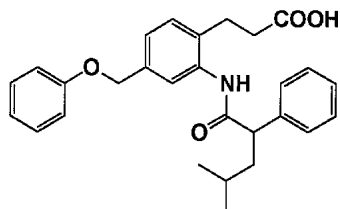


TLC: Rf 0.56(: =9:1);

NMR(300MHz, DMSO-d₆): 9.41(brs, 1H), 7.41-7.39(m, 3H), 7.34-7.23(m, 5H), 7.20-7.15(m, 2H), 6.99-6.96(m, 2H), 6.92(m, 1H), 5.01(s, 2H), 3.90(q, J=7.2Hz, 1H), 2.43-2.38(m, 2H), 2.04(t, J=7.2Hz, 2H), 1.56-1.48(m, 2H), 1.41(d, J=7.2Hz, 3H).

8(43)

3-(2-((4- -2-))-4-)

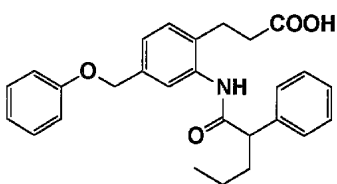


TLC: Rf 0.42(: =1:1);

NMR(300MHz, CDCl₃): 8.20(s, 1H), 7.81(s, 1H), 7.45-7.09(m, 9H), 6.98-6.90(m, 3H), 4.98(s, 2H), 3.69(t, J=7.7Hz, 1H), 2.67-2.53(m, 4H), 2.14(m, 1H), 1.80(m, 1H), 1.55(m, 1H), 0.95(d, J=6.6Hz, 3H), 0.94(d, J=6.6 Hz, 3H).

8(44)

3-(2-((2-))-4-)

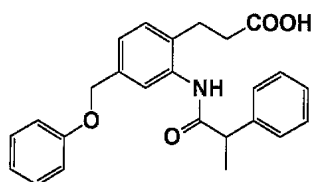


TLC: Rf 0.46(: =10:1);

NMR(300MHz, CDCl₃): 8.23(s, 1H), 7.83(s, 1H), 7.45-7.10(m, 9H), 6.99-6.90(m, 3H), 4.99(s, 2H), 3.60(t, J=7.5Hz, 1H), 2.70-2.54(m, 4H), 2.25(m, 1H), 1.87(m, 1H), 1.58-1.24(m, 2H), 0.95(t, J=7.5Hz, 3H).

8(45)

3-(2-((2-))-4-)

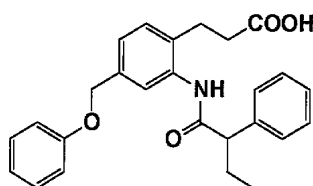


TLC: Rf 0.41(: =9:1);

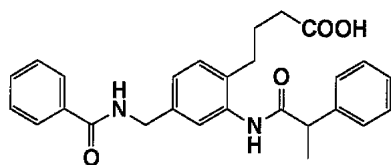
NMR(300MHz, CDCl₃): 8.11(brs, 1H), 7.85(s, 1H), 7.46-7.24(m, 7H), 7.22-7.10(m, 2H), 6.98-6.90(m, 3H), 5.00(s, 2H), 3.81(q, J=6.9Hz, 1H), 2.65-2.50(m, 4H), 1.64(d, J=6.9Hz, 3H).

8(46)

3-(2-((2-))-4-)



TLC: Rf 0.37(: =9:1);

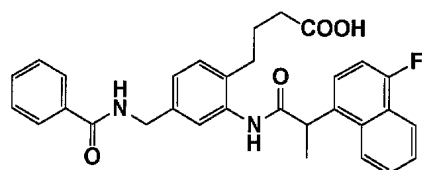


TLC: Rf 0.27(: =1:3);

NMR(300MHz, DMSO-d₆): 12.02(brs, 1H), 9.36(s, 1H), 9.01(t, J=6.0Hz, 1H), 7.90-7.84(m, 2H), 7.56-7.36(m, 5H), 7.34-7.18(m, 4H), 7.13-7.03(m, 2H), 4.40(d, J=6.0Hz, 2H), 3.87(q, J=7.2Hz, 1H), 2.36(m, 2H), 2.01(t, J=7.5Hz, 2H), 1.50(m, 2H), 1.40(d, J=7.2Hz, 3H).

_____ 8(51)

4-(2-((2-(4- -1-)))-4-)

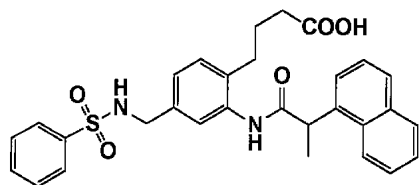


TLC: Rf 0.51(: =9:1);

NMR(300MHz, DMSO-d₆): 9.52(brs, 1H), 9.01(m, 1H), 8.34(m, 1H), 8.08(m, 1H), 7.88-7.84(m, 2H), 7.68-7.61(m, 2H), 7.56-7.44(m, 4H), 7.28(dd, J=10.8, 7.8Hz, 1H), 7.21(brs, 1H), 7.13-7.06(m, 2H), 4.63(q, J=6.9 Hz, 1H), 4.39(d, J=5.7Hz, 2H), 2.43-2.38(m, 2H), 2.04-1.93(m, 2H), 1.57(d, J=6.9Hz, 3H), 1.53-1.49(m, 2H).

_____ 8(52)

4-(2-((2-(-1-)))-4-)

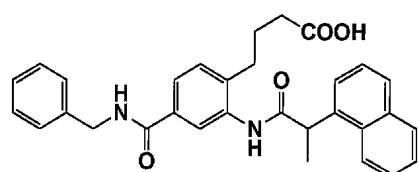


TLC: Rf 0.31(: =1:3);

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 9.45(s, 1H), 8.31(d, J=8.1Hz, 1H), 8.11(t, J=6.3Hz, 1H), 7.95(m, 1H), 7.84(d, J=8.1Hz, 1H), 7.80-7.74(m, 2H), 7.63-7.47(m, 7H), 7.20(d, J=1.5Hz, 1H), 7.05(d, J=7.8Hz, 1H), 6.95(dd, J=7.8, 1.5Hz, 1H), 4.69(q, J=6.9Hz, 1H), 3.89(d, J=6.3Hz, 2H), 2.37(m, 2H), 1.99(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.52(m, 2H).

_____ 8(53)

4-(2-((2-(-1-)))-4-)

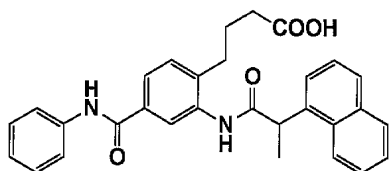


TLC: Rf 0.21();

NMR(300MHz, DMSO-d₆): 12.06(s, 1H), 9.62(s, 1H), 8.99(t, J=6.0Hz, 1H), 8.32(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.84(d, J=8.1Hz, 1H), 7.79(d, J=1.8Hz, 1H), 7.67(dd, J=7.8, 1.8Hz, 1H), 7.63-7.47(m, 4H), 7.35-7.18(m, 6H), 4.71(q, J=6.9Hz, 1H), 4.44(d, J=6.0Hz, 2H), 2.46(m, 2H), 2.02(t, J=7.5Hz, 2H), 1.61(d, J=6.9Hz, 3H), 1.57(m, 2H).

8(54)

4-(2-((2-(-1-))))-4-)

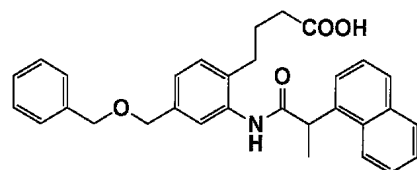


TLC: Rf 0.32();

NMR(300MHz, DMSO-d₆): 12.07(s, 1H), 10.19(s, 1H), 9.66(s, 1H), 8.33(d, J=8.1Hz, 1H), 7.96(d, J=8.1Hz, 1H), 7.88-7.82(m, 2H), 7.77-7.70(m, 3H), 7.64-7.48(m, 4H), 7.37-7.28(m, 3H), 7.08(m, 1H), 4.73(q, J=6.9Hz, 1H), 2.50(m, 2H), 2.04(t, J=7.5Hz, 2H), 1.62(d, J=6.9Hz, 3H), 1.59(m, 2H).

8(55)

4-(2-((2-(-1-))))-4-)

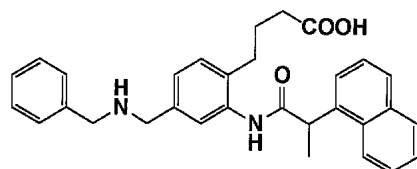


TLC: Rf 0.29(: =1:2);

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.49(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.38-7.24(m, 6H), 7.17-7.06(m, 2H), 4.69(q, J=6.9Hz, 1H), 4.49(s, 2H), 4.45(s, 2H), 2.43(m, 2H), 2.02(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(56)

4-(2-((2-(-1-))))-4-)

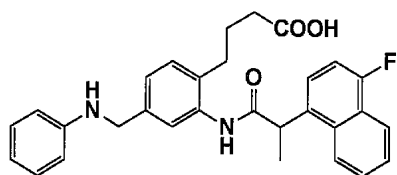


TLC: Rf 0.67(: =4:1);

NMR(300MHz, DMSO-d₆): 9.54(s, 1H), 8.32(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.84(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.42-7.28(m, 6H), 7.16(m, 2H), 4.72(q, J=6.9Hz, 1H), 3.87(bs, 2H), 3.82(bs, 2H), 2.43(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(57)

4-(2-((2-(4-) -1-)))-4-)

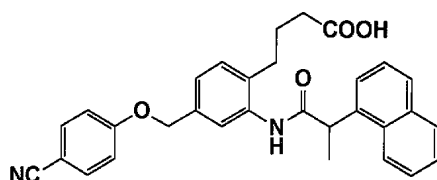


TLC: Rf 0.26(: =9:1);

NMR(300MHz, DMSO-d₆): 9.51(brs, 1H), 8.35(m, 1H), 8.09(m, 1H), 7.69-7.61(m, 2H), 7.54(dd, J=7.8, 6.0Hz, 1H), 7.34-7.27(m, 2H), 7.10(s, 2H), 7.00(dd, J=8.4, 7.5Hz, 2H), 6.52-6.44(m, 3H), 6.17(t, J=7.2Hz, 1H), 4.64(q, J=7.2Hz, 1H), 4.16(d, J=6.0Hz, 2H), 2.43-2.35(m, 2H), 2.01-1.96(m, 2H), 1.58(d, J=7.2Hz, 3H), 1.55-1.50(m, 2H).

_____ 8(58)

4-(2-((2-(-1-))))-4-(4-))

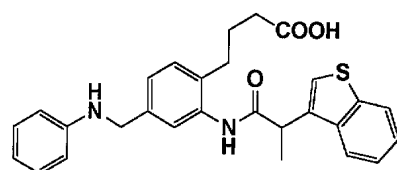


TLC: Rf 0.17(: =9:1);

NMR(300MHz, CDCl₃): 8.14(d, J=7.5Hz, 1H), 8.05(brs, 1H), 7.92(m, 1H), 7.86(d, J=7.8Hz, 1H), 7.66-7.50(m, 6H), 7.25(brs, 1H), 7.06-6.97(m, 4H), 5.04(s, 2H), 4.59(q, J=6.9Hz, 1H), 1.97-1.89(m, 4H), 1.83(d, J=6.9Hz, 3H), 1.30-1.21(m, 2H).

_____ 8(59)

4-(2-((2-(-3-))))-4-)

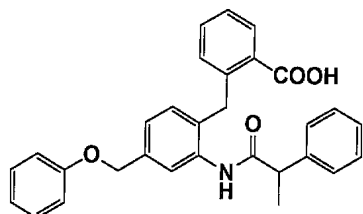


TLC: Rf 0.51(: =9:1);

NMR(300MHz, DMSO-d₆): 9.51(s, 1H), 8.01-7.96(m, 2H), 7.58(s, 1H), 7.43-7.34(m, 2H), 7.30(s, 1H), 7.11(s, 2H), 7.02(t, J=7.8Hz, 2H), 6.57-6.49(m, 3H), 4.29(q, J=6.9Hz, 1H), 4.17(s, 2H), 2.40(dd, J=9.3, 6.6Hz, 2H), 2.04-1.99(m, 2H), 1.58(d, J=6.9Hz, 3H), 1.57-1.50(m, 2H).

_____ 8(60)

2-(2-((2-)))-4-)

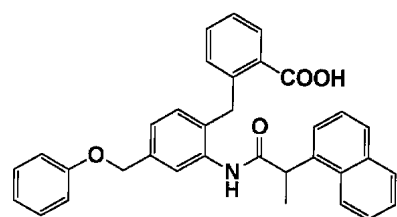


TLC: Rf 0.33(: =1:2);

NMR(300MHz, DMSO-d₆): 12.97(s, 1H), 9.49(s, 1H), 7.81(dd, J=7.8, 1.5Hz, 1H), 7.53(d, J=1.5Hz, 1H), 7.39-7.10(m, 10H), 7.00-6.88(m, 5H), 5.00(s, 2H), 4.24(s, 2H), 3.84(q, J=6.9Hz, 1H), 1.33(d, J=6.9Hz, 3H).

8(61)

2-(2-((2-(-1-))))-4-

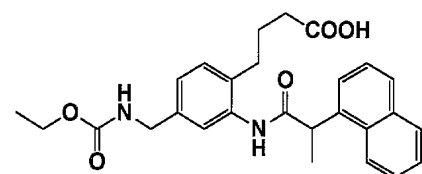


TLC: Rf 0.33(: =1:2);

NMR(300MHz, DMSO-d₆): 12.95(s, 1H), 9.62(s, 1H), 8.20(m, 1H), 7.91(m, 1H), 7.82-7.76(m, 2H), 7.55-7.23(m, 9H), 7.13(dd, J=8.1, 1.5Hz, 1H), 7.00-6.87(m, 5H), 5.01(s, 2H), 4.64(q, J=6.9Hz, 1H), 4.28(d, J=16.5 Hz, 1H), 4.22(d, J=16.5Hz, 1H), 1.47(d, J=6.9Hz, 3H).

8(62)

4-(2-((2-(-1-))))-4-

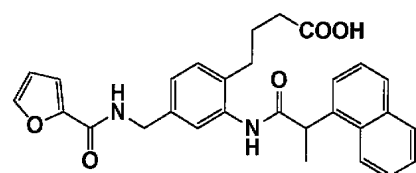


TLC: Rf 0.56(: =9:1);

NMR(300MHz, DMSO-d₆): 9.59(brs, 1H), 8.32(d, J=8.4Hz, 1H), 7.94(d, J=8.4Hz, 1H), 7.83(d, J=7.5Hz, 1H), 7.62-7.47(m, 5H), 7.18(brs, 1H), 7.09(d, J=7.5Hz, 1H), 6.98(d, J=7.5Hz, 1H), 4.71(q, J=6.9Hz, 1H), 4.07(d, J=6.0Hz, 2H), 3.96(q, J=7.2Hz, 2H), 2.42-2.37(m, 2H), 2.02-1.97(m, 2H), 1.59(d, J=7.2Hz, 3H), 1.61-1.51(m, 2H), 1.13(t, J=7.2Hz, 3H).

8(63)

4-(2-((2-(-1-))))-4-(-2-))

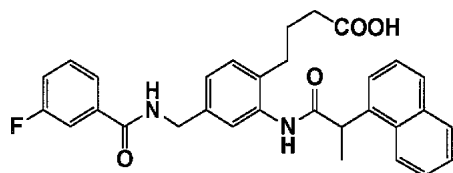


TLC: Rf 0.39(: =9:1);

NMR(300MHz, DMSO-d₆): 9.50(s, 1H), 8.88(t, J=6.0Hz, 1H), 8.29(d, J=8.1Hz, 1H), 7.92(m, 1H), 7.85-7.81(m, 2H), 7.57-7.45(m, 4H), 7.20(brs, 1H), 7.11-7.09(m, 2H), 7.03(dd, J=7.8, 1.5Hz, 1H), 6.61(dd, J=3.3, 1.5Hz, 1H), 4.67(q, J=7.2Hz, 1H), 4.32(d, J=6.0Hz, 2H), 2.38(dd, J=8.7, 7.2Hz, 2H), 1.99(t, J=7.5Hz, 2H), 1.58(d, J=7.2Hz, 3H), 1.58-1.50(m, 2H).

_____ 8(64)

4-(2-((2-(-1-))))-4-(3-))

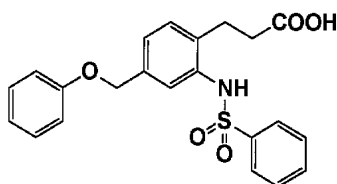


TLC: Rf 0.43(: =9:1);

NMR(300MHz, DMSO-d₆): 9.49(s, 1H), 9.11(t, J=6.0Hz, 1H), 8.29(d, J=7.8Hz, 1H), 7.93(m, 1H), 7.81(d, J=8.1Hz, 1H), 7.72(d, J=7.5Hz, 1H), 7.66(dd, J=9.9, 1.5Hz, 1H), 7.57-7.42(m, 5H), 7.39(m, 1H), 7.23(brs, 1H), 7.11(d, J=7.8Hz, 1H), 7.07(d, J=7.8Hz, 1H), 4.67(q, J=7.2Hz, 1H), 4.40(d, J=5.7Hz, 2H), 2.40(dd, J=8.7, 7.2Hz, 2H), 2.01(t, J=7.2Hz, 2H), 1.58(d, J=7.2Hz, 3H), 1.57-1.49(m, 2H).

_____ 8(65)

3-(2- -4-)

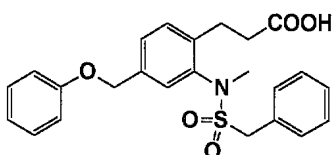


TLC: Rf 0.42(: =10:1);

NMR(300MHz, CD₃OD): 7.66-7.63(m, 2H), 7.56-7.53(m, 2H), 7.46-7.40(m, 2H), 7.27-7.19(m, 4H), 7.11(s, 1H), 6.94-6.87(m, 3H), 4.94(s, 2H), 2.70(t, J=7.8Hz, 2H), 2.41(t, J=7.8Hz, 2H).

_____ 8(66)

3-(2-(N- -N-)-4-)

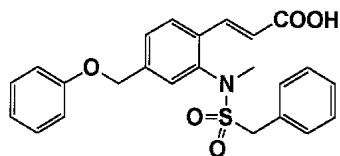


TLC: Rf 0.49(: =10:1);

NMR(300MHz, DMSO-d₆): 7.40-7.18(m, 10H), 7.02-6.90(m, 3H), 5.02(s, 2H), 4.80-4.40(m, 2H), 3.15(s, 3H), 3.00-2.60(m, 2H), 2.52(t, J=8.7Hz, 2H).

_____ 8(67)

(2E)-3-(2-(N-(4-(benzyloxy)phenyl)phenyl)acrylamide)-4-(4-(benzyloxy)phenyl)-2-

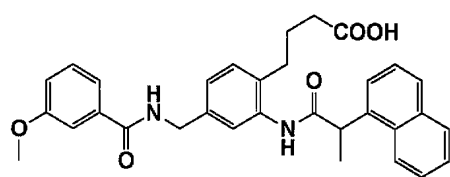


TLC: Rf 0.49(: =10:1);

NMR(300MHz, DMSO-d₆): 7.91(d, J=8.1Hz, 1H), 7.83(d, J=16.0Hz, 1H), 7.50-7.20(m, 9H), 7.01(d, J=8.1 Hz, 2H), 6.94(t, J=7.4Hz, 1H), 6.53(d, J=16.0Hz, 1H), 5.09(s, 2H), 4.59(brs, 2H), 3.16(s, 3H).

8(68)

4-(2-((2-(4-(4-methoxyphenyl)phenyl)acrylamide)-1-phenyl)phenyl)-4-(3-phenyl)phenyl)-2-

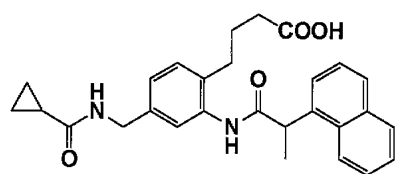


TLC: Rf 0.44(: =9:1);

NMR(300MHz, DMSO-d₆): 9.50(brs, 1H), 9.00(t, J=6.0Hz, 1H), 8.29(d, J=8.1Hz, 1H), 7.93(m, 1H), 7.81(d, J=8.1Hz, 1H), 7.58-7.34(m, 7H), 7.23(brs, 1H), 7.12-7.05(m, 3H), 4.67(q, J=7.2Hz, 1H), 4.39(d, J=6.3Hz, 2H), 3.79(s, 3H), 2.39(dd, J=9.6, 6.0Hz, 2H), 2.01(t, J=7.5Hz, 2H), 1.58(d, J=7.2Hz, 3H), 1.57-1.50(m, 2H).

8(69)

4-(2-((2-(4-(4-methoxyphenyl)phenyl)phenyl)acrylamide)-1-phenyl)phenyl)-4-

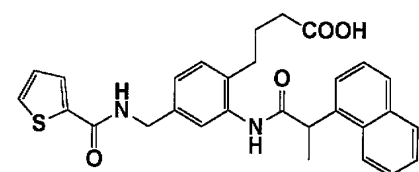


TLC: Rf 0.40(: =9:1);

NMR(300MHz, DMSO-d₆): 9.51(s, 1H), 8.53(t, J=6.0Hz, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(d, J=7.5Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.61-7.47(m, 4H), 7.16(m, 1H), 7.10(d, J=7.5Hz, 1H), 6.99(d, J=7.5Hz, 1H), 4.69(q, J=6.9Hz, 1H), 4.19(d, J=5.7Hz, 2H), 2.39(dd, J=9.3, 6.0Hz, 2H), 2.00(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.60-1.51(m, 3H), 0.70-0.60(m, 4H).

8(70)

4-(2-((2-(4-(4-methoxyphenyl)phenyl)phenyl)acrylamide)-1-phenyl)phenyl)-4-(2-phenyl)phenyl)-2-

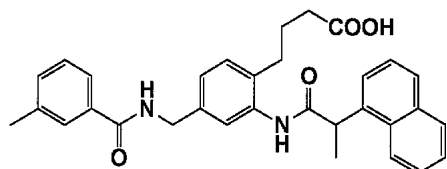


TLC: Rf 0.42(: =9:1);

NMR(300MHz, DMSO-d₆): 9.50(brs, 1H), 9.01(t, J=6.0Hz, 1H), 8.29(d, J=6.0Hz, 1H), 7.94(m, 1H), 7.82(d, J=7.8Hz, 1H), 7.78-7.75(m, 2H), 7.57-7.44(m, 4H), 7.22(brs, 1H), 7.16-7.07(m, 2H), 7.05(dd, J=7.8, 1.5Hz, 1H), 4.67(q, J=6.9Hz, 1H), 4.36(d, J=6.0Hz, 2H), 2.39(dd, J=8.7, 6.6Hz, 2H), 2.00(t, J=7.5Hz, 2H), 1.58(d, J=7.2Hz, 3H), 1.56-1.49(m, 2H).

8(71)

4-(2-((2-(
-1-))))-4-(3-))

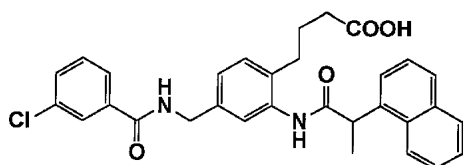


TLC: Rf 0.22());

NMR(300MHz, DMSO-d₆): 12.06(br, 1H), 9.47(s, 1H), 8.95(t, J=6.0Hz, 1H), 8.29(m, 1H), 7.93(m, 1H), 7.82(d, J=7.8Hz, 1H), 7.70-7.63(m, 2H), 7.59-7.43(m, 4H), 7.36-7.32(m, 2H), 7.22(bs, 1H), 7.11(d, J=8.1Hz, 1H), 7.06(dd, J=8.1, 1.5Hz, 1H), 4.67(q, J=6.9Hz, 1H), 4.38(d, J=6.0Hz, 2H), 2.39(m, 2H), 2.35(s, 3H), 2.01(t, J=7.2Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.54(m, 2H).

8(72)

4-(2-((2-(
-1-))))-4-(3-))

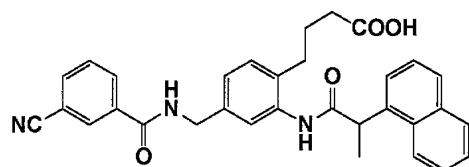


TLC: Rf 0.29());

NMR(300MHz, DMSO-d₆): 12.03(br, 1H), 9.47(s, 1H), 9.14(t, J=6.0Hz, 1H), 8.29(m, 1H), 7.96-7.79(m, 4H), 7.64-7.43(m, 6H), 7.22(bs, 1H), 7.12(d, J=8.1Hz, 1H), 7.06(dd, J=8.1, 1.5Hz, 1H), 4.67(q, J=6.9Hz, 1H), 4.39(d, J=6.0Hz, 2H), 2.39(m, 2H), 2.01(t, J=7.2Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.54(m, 2H).

8(73)

4-(2-((2-(
-1-))))-4-(3-))

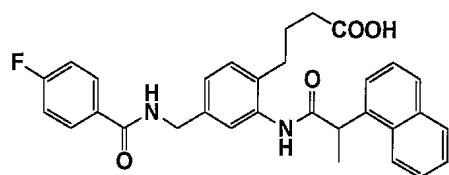


TLC: Rf 0.46(: =9:1);

NMR(300MHz, DMSO-d₆): 9.49(s, 1H), 9.22(m, 1H), 8.30-8.28(m, 2H), 8.17(d, J=7.8Hz, 1H), 7.99(d, J=7.5Hz, 1H), 7.93(d, J=8.1Hz, 1H), 7.82(d, J=8.1Hz, 1H), 7.70(t, J=7.5Hz, 1H), 7.58-7.44(m, 4H), 7.24(s, 1H), 7.12(d, J=7.8Hz, 1H), 7.08(d, J=7.8Hz, 1H), 4.67(q, J=6.9Hz, 1H), 4.41(d, J=5.7Hz, 2H), 2.43-2.37(m, 2H), 2.01(t, J=7.2Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.58-1.49(m, 2H).

8(74)

4-(2-((2-(-1-))))-4-(4-))

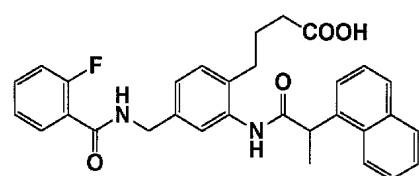


TLC: Rf 0.51(: =9:1);

NMR(300MHz, DMSO-d₆): 9.49(s, 1H), 9.03(t, J=6.0Hz, 1H), 8.29(d, J=7.8Hz, 1H), 7.98-7.90(m, 3H), 7.82(d, J=8.1Hz, 1H), 7.57-7.44(m, 4H), 7.30(dd, J=9.3, 7.8Hz, 2H), 7.22(s, 1H), 7.11(d, J=8.1Hz, 1H), 7.06(d, J=8.1Hz, 1H), 4.71(q, J=6.9Hz, 1H), 4.39(d, J=6.3Hz, 2H), 2.42-2.37(m, 2H), 2.01(t, J=7.5Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.57-1.50(m, 2H).

8(75)

4-(2-((2-(-1-))))-4-(2-))

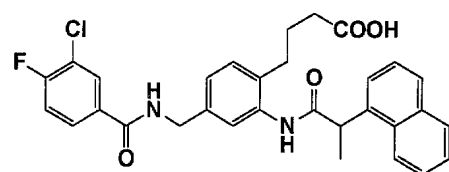


TLC: Rf 0.53(: =9:1);

NMR(300MHz, DMSO-d₆): 9.51(s, 1H), 8.83(m, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(dd, J=7.8, 1.5Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.64-7.45(m, 6H), 7.31-7.24(m, 3H), 7.13(d, J=7.8Hz, 1H), 7.08(dd, J=7.8, 1.2Hz, 1H), 4.69(q, J=6.9Hz, 1H), 4.38(d, J=6.0Hz, 2H), 2.43-2.38(m, 2H), 2.02(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.57-1.51(m, 2H).

8(76)

4-(2-((2-(-1-))))-4-(3- -4-))

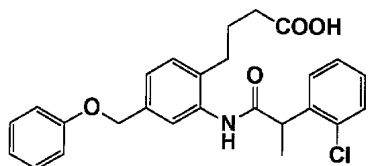


TLC: Rf 0.60(: =9:1);

NMR(300MHz, DMSO-d₆): 9.49(s, 1H), 9.14(t, J=6.0Hz, 1H), 8.29(d, J=8.4Hz, 1H), 8.08(dd, J=7.2, 2.1Hz, 1H), 7.93(d, J=9.0Hz, 1H), 7.90(m, 1H), 7.82(d, J=7.8Hz, 1H), 7.58-7.45(m, 5H), 7.23(brs, 1H), 7.11(d, J=7.8 Hz, 1H), 7.06(d, J=8.4Hz, 1H), 4.67(q, J=6.9Hz, 1H), 4.39(d, J=8.7Hz, 2H), 2.40(dd, J=9.0, 6.0Hz, 2H), 2.01(t, J=7.5Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.57-1.52(m, 2H).

8(77)

4-(2-((2-(2-))))-4-)

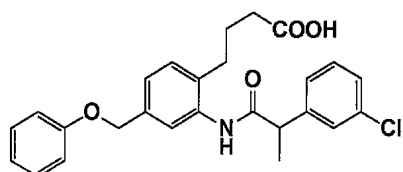


TLC: Rf 0.40(: : =1:1:0.01);

NMR(300MHz, DMSO-d₆): 12.50(bs, 1H), 9.50(s, 1H), 7.50(dd, J=7.8, 2.1Hz, 1H), 7.44(dd, J=7.8, 2.1Hz, 1H), 7.40-7.23(m, 5H), 7.21(m, 2H), 7.01-6.89(m, 3H), 5.02(s, 2H), 4.26(q, J=7.2Hz, 1H), 2.50(m, 2H), 2.14(t, J=7.2Hz, 2H), 1.64(m, 2H), 1.48(d, J=7.2Hz, 3H).

_____ 8(78)

4-(2-((2-(3-)))-4-)

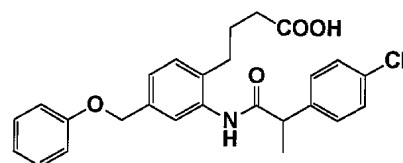


TLC: Rf 0.44(: : =1:1:0.01);

NMR(300MHz, DMSO-d₆): 12.05(bs, 1H), 9.48(s, 1H), 7.45(s, 1H), 7.38-7.16(m, 8H), 7.00-6.88(m, 3H), 5.02(s, 2H), 3.92(q, J=7.2Hz, 1H), 2.42(m, 2H), 2.07(t, J=7.2Hz, 2H), 1.54(m, 2H), 1.42(d, J=7.2Hz, 3H).

_____ 8(79)

4-(2-((2-(4-)))-4-)

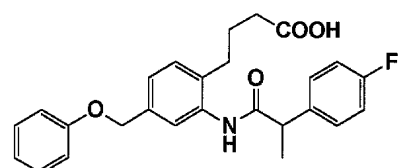


TLC: Rf 0.46(: : =1:1:0.01);

NMR(300MHz, DMSO-d₆): 12.06(bs, 1H), 9.46(s, 1H), 7.44-7.35(m, 5H), 7.31-7.15(m, 4H), 7.00-6.88(m, 3H), 5.01(s, 2H), 3.91(q, J=6.9Hz, 1H), 2.42(m, 2H), 2.07(t, J=6.9Hz, 2H), 1.55(m, 2H), 1.41(d, J=6.9Hz, 3H).

_____ 8(80)

4-(2-((2-(4-)))-4-)



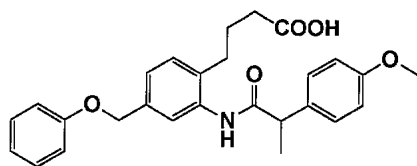
TLC: Rf 0.44(: : =1:1:0.01);

NMR(300MHz, DMSO-d₆): 12.05(bs, 1H), 9.43(s, 1H), 7.46-7.36(m, 3H), 7.31-7.23(m, 2H), 7.22-7.10(

m, 4H), 7.00-6.88(m, 3H), 5.01(s, 2H), 3.91(q, J=6.9Hz, 1H), 2.42(m, 2H), 2.06(t, J=7.5Hz, 2H), 1.53(m, 2H), 1.40(d, J=6.9Hz, 3H).

8(81)

4-(2-((2-(4-)))-4-)

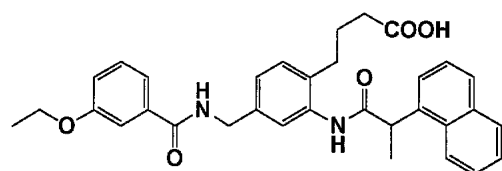


TLC: Rf 0.40(: : =1:1:0.01);

NMR(300MHz, DMSO-d₆): 12.05(bs, 1H), 9.33(s, 1H), 7.38(s, 1H), 7.34-7.23(m, 4H), 7.17(m, 2H), 7.00-6.85(m, 5H), 5.01(s, 2H), 3.83(q, J=6.9Hz, 1H), 3.72(s, 3H), 2.41(m, 2H), 2.05(t, J=7.5Hz, 2H), 1.53(m, 2H), 1.38(d, J=6.9Hz, 3H).

8(82)

4-(2-((2-(-1-)))-4-(3-))

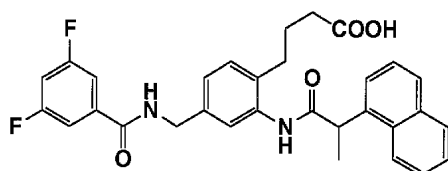


TLC: Rf 0.44(: =9:1);

NMR(300MHz, DMSO-d₆): 9.50(s, 1H), 8.98(t, J=5.7Hz, 1H), 8.29(d, J=7.8Hz, 1H), 7.93(d, J=7.2Hz, 1H), 7.81(d, J=7.8Hz, 1H), 7.57-7.36(m, 7H), 7.23(s, 1H), 7.12-7.04(m, 3H), 4.67(q, J=6.0Hz, 1H), 4.38(d, J=5.7Hz, 2H), 4.05(q, J=6.9Hz, 2H), 2.40(dd, J=8.7, 7.2Hz, 2H), 2.01(t, J=7.5Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.57-1.50(m, 2H), 1.33(t, J=6.9Hz, 3H).

8(83)

4-(2-((2-(-1-)))-4-(3,5-))

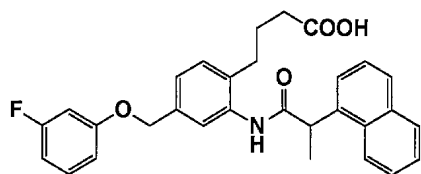


TLC: Rf 0.56(: =9:1);

NMR(300MHz, DMSO-d₆): 9.50(s, 1H), 9.18(t, J=6.0Hz, 1H), 8.29(d, J=8.1Hz, 1H), 7.93(d, J=7.2Hz, 1H), 7.82(d, J=7.8Hz, 1H), 7.60-7.44(m, 7H), 7.23(brs, 1H), 7.11(d, J=8.1Hz, 1H), 7.07(d, J=8.1Hz, 1H), 4.67(q, J=6.9Hz, 1H), 4.39(d, J=5.7Hz, 2H), 2.40(dd, J=9.0, 6.3Hz, 2H), 2.01(t, J=7.2Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.57-1.50(m, 2H).

8(84)

4-(2-((2-(-1-)))-4-(3-))

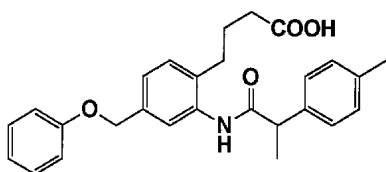


TLC: Rf 0.62(: =9:1);

NMR(300MHz, DMSO-d₆): 9.54(s, 1H), 8.33(d, J=8.7Hz, 1H), 7.94(d, J=6.9Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.61-7.47(m, 4H), 7.38(s, 1H), 7.29(m, 1H), 7.19(s, 2H), 6.90-6.80(m, 2H), 6.75(m, 1H), 5.03(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.44(dd, J=9.0, 5.1Hz, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.59-1.52(m, 2H).

8(85)

4-(2-((2-(4-))))-4-)

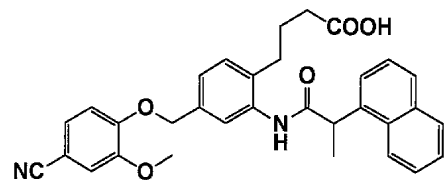


TLC: Rf 0.24(: =1:2);

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.34(s, 1H), 7.37(bs, 1H), 7.32-7.08(m, 8H), 7.00-6.88(m, 3H), 5.01(s, 2H), 3.84(q, J=6.9Hz, 1H), 2.39(m, 2H), 2.26(s, 3H), 2.02(t, J=7.5Hz, 2H), 1.51(m, 2H), 1.38(d, J=6.9 Hz, 3H).

8(86)

4-(2-((2-(-1-))))-4-(4- -2-))

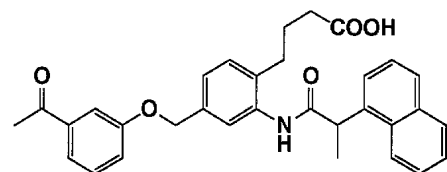


TLC: Rf 0.34();

NMR(300MHz, DMSO-d₆): 12.04(br, 1H), 9.55(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1 Hz, 1H), 7.62-7.46(m, 4H), 7.41-7.35(m, 3H), 7.22-7.14(m, 3H), 5.10(s, 2H), 4.70(q, J=6.9Hz, 1H), 3.78(s, 3H), 2.44(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.57(m, 2H).

8(87)

4-(2-((2-(-1-))))-4-(3-))

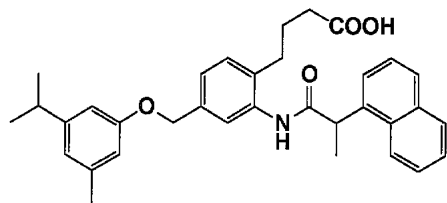


TLC: Rf 0.40();

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.52(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.39(m, 8H), 7.28-7.16(m, 3H), 5.10(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.55(s, 3H), 2.44(m, 2H), 2.03(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(88)

4-(2-((2-(1-)))-4-(3-5-))

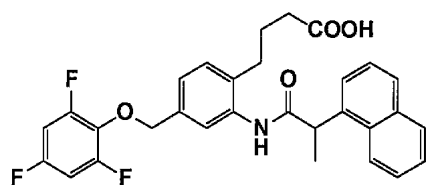


TLC: Rf 0.26(: =1:2);

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.51(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.47(m, 4H), 7.37(s, 1H), 7.18(m, 2H), 6.65-6.59(m, 3H), 4.96(s, 2H), 4.69(q, J=6.9Hz, 1H), 2.77(m, 1H), 2.43(m, 2H), 2.22(s, 3H), 2.03(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H), 1.14(d, J=6.9Hz, 6H).

8(89)

4-(2-((2-(1-)))-4-(2,4,6-))

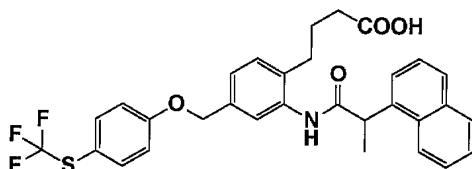


TLC: Rf 0.28(: =1:2);

NMR(300MHz, DMSO-d₆): 12.12(br, 1H), 9.70(bs, 1H), 8.33(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.40(m, 5H), 7.28-7.10(m, 4H), 5.01(s, 2H), 4.74(q, J=6.9Hz, 1H), 2.45(m, 2H), 2.01(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(90)

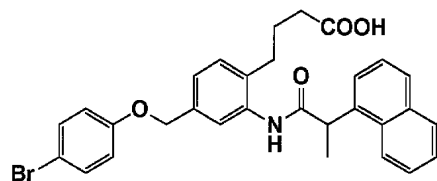
4-(2-((2-(1-)))-4-(4-))



TLC: Rf 0.24(: =1:2);

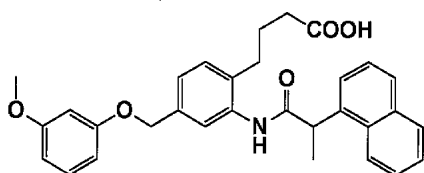
NMR(300MHz, DMSO-d₆): 12.05(bs, 1H), 9.52(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62(d, J=8.4Hz, 2H), 7.60-7.46(m, 4H), 7.39(s, 1H), 7.20(m, 2H), 7.12(d, J=8.4Hz, 2H), 5.09(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.44(m, 2H), 2.03(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(91)

4-(2-((2-(
-1-))))-4-(4-
))

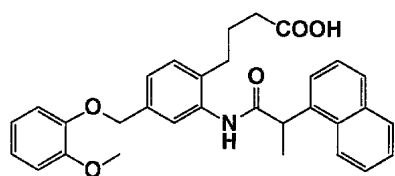
TLC: Rf 0.54(: =9:1);

NMR(300MHz, DMSO-d₆): 9.54(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(dd, J=7.8, 1.5Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.61-7.47(m, 4H), 7.45-7.40(m, 2H), 7.37(s, 1H), 7.17(d, J=0.9Hz, 2H), 6.96-6.93(m, 2H), 5.01(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.44(dd, J=8.7, 6.0Hz, 2H), 2.02(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.58-1.52(m, 2H).

8(92)4-(2-((2-(
-1-))))-4-(3-
))

TLC: Rf 0.60(: =9:1);

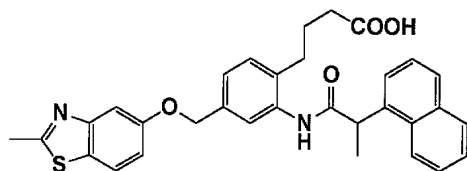
NMR(300MHz, DMSO-d₆): 9.54(s, 1H), 8.31(d, J=8.4Hz, 1H), 7.94(d, J=7.2Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.60-7.47(m, 4H), 7.37(s, 1H), 7.18-7.13(m, 3H), 6.56-6.48(m, 3H), 4.99(s, 2H), 4.70(q, J=6.9Hz, 1H), 3.70(s, 3H), 2.43(dd, J=8.7, 5.7Hz, 2H), 2.02(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.59-1.51(m, 2H).

8(93)4-(2-((2-(
-1-))))-4-(2-
))

TLC: Rf 0.59(: =9:1);

NMR(300MHz, DMSO-d₆): 9.55(s, 1H), 8.33(d, J=8.4Hz, 1H), 7.94(dd, J=7.8, 1.8Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.61-7.47(m, 4H), 7.37(s, 1H), 7.18(s, 2H), 6.98(dd, J=7.5, 1.8Hz, 1H), 6.95(dd, J=7.5, 2.4Hz, 1H), 6.91-6.80(m, 2H), 4.98(s, 2H), 4.70(q, J=7.2Hz, 1H), 3.74(s, 3H), 2.46-2.41(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=7.2Hz, 3H), 1.59-1.52(m, 2H).

8(94)4-(2-((2-(
-1-))))-4-(2-
-5-))

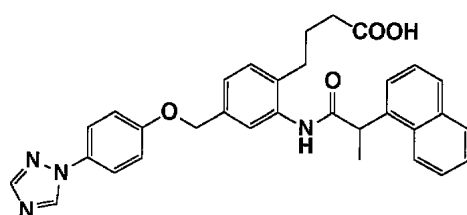


TLC: Rf 0.18();

NMR(300MHz, DMSO-d₆): 12.05(bs, 1H), 9.53(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.86(d, J=8.7Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 5H), 7.41(d, J=1.5Hz, 1H), 7.23(dd, J=7.8, 1.5Hz, 1H), 7.18(d, J=7.8Hz, 1H), 7.06(dd, J=8.7, 2.4Hz, 1H), 5.11(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.75(s, 3H), 2.43(m, 2H), 2.02(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(95)

4-(2-((2-(-1-))))-4-(4-(1,2,4- -1-)))

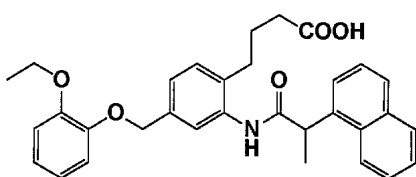


TLC: Rf 0.11();

NMR(300MHz, DMSO-d₆): 12.05(s, 1H), 9.52(s, 1H), 9.15(s, 1H), 8.31(d, J=8.1Hz, 1H), 8.17(s, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.74(d, J=9.0Hz, 2H), 7.62-7.46(m, 4H), 7.41(bs, 1H), 7.25-7.16(m, 2H), 7.15(d, J=9.0Hz, 2H), 5.09(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.43(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.57(m, 2H).

8(96)

4-(2-((2-(-1-))))-4-(2-))

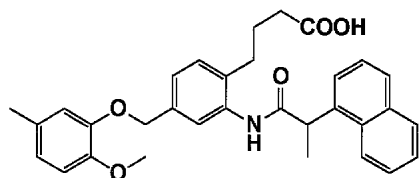


TLC: Rf 0.45();

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.51(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.38(bs, 1H), 7.18(m, 2H), 7.01-6.92(m, 2H), 6.90-6.78(m, 2H), 5.00(s, 2H), 4.70(q, J=6.9Hz, 1H), 3.98(q, J=6.9Hz, 2H), 2.43(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.57(m, 2H), 1.26(t, J=6.9Hz, 3H).

8(97)

4-(2-((2-(-1-))))-4-(2- -5-))

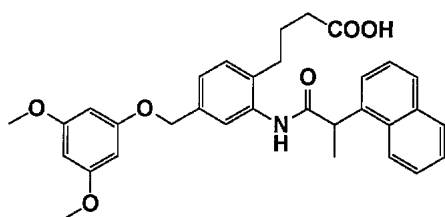


TLC: Rf 0.41();

NMR(300MHz, DMSO-d₆): 12.05(bs, 1H), 9.53(s, 1H), 8.32(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.36(bs, 1H), 7.18(m, 2H), 6.85(d, J=2.1Hz, 1H), 6.82(d, J=8.1Hz, 1H), 6.68(m, 1H), 4.95(s, 2H), 4.70(q, J=6.9Hz, 1H), 3.68(s, 3H), 2.44(m, 2H), 2.19(s, 3H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.57(m, 2H).

8(98)

4-(2-((2-(-1-))))-4-(3,5-

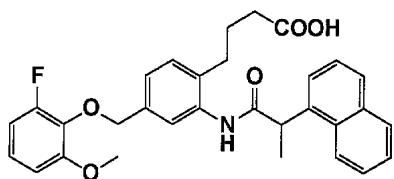


TLC: Rf 0.40();

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.51(s, 1H), 8.30(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.35(bs, 1H), 7.17(m, 2H), 6.14(d, J=2.1Hz, 2H), 6.07(t, J=2.1Hz, 1H), 4.96(s, 2H), 4.69(q, J=6.9Hz, 1H), 3.67(s, 6H), 2.42(m, 2H), 2.02(t, J=7.2Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.55(m, 2H).

8(99)

4-(2-((2-(-1-))))-4-(2- -6-

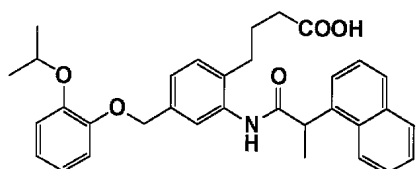


TLC: Rf 0.40();

NMR(300MHz, DMSO-d₆): 12.04(s, 1H), 9.51(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.95(m, 1H), 7.84(d, J=8.1Hz, 1H), 7.62-7.47(m, 4H), 7.38(bs, 1H), 7.16(m, 2H), 7.03(m, 1H), 6.90-6.76(m, 2H), 4.92(s, 2H), 4.70(q, J=6.9 Hz, 1H), 3.78(s, 3H), 2.43(m, 2H), 2.02(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.56(m, 2H).

8(100)

4-(2-((2-(-1-))))-4-(2-

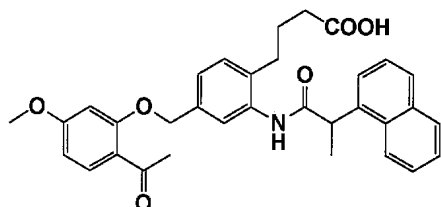


TLC: Rf 0.53() ;

NMR(300MHz, DMSO-d₆): 12.05(s, 1H), 9.51(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.46(m, 4H), 7.39(bs, 1H), 7.18(m, 2H), 7.02-6.92(m, 2H), 6.89-6.81(m, 2H), 5.00(s, 2H), 4.70(q, J=6.9Hz, 1H), 4.47(m, 1H), 2.43(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.57(m, 2H), 1.18(d, J=6.0 Hz, 6H).

8(101)

4-(2-((2-(-1-))))-4-(2- -5-))

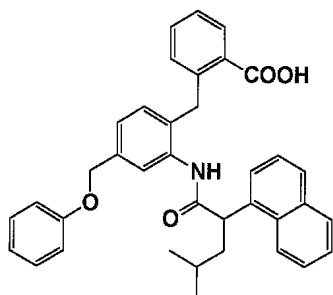


TLC: Rf 0.35() ;

NMR(300MHz, DMSO-d₆): 12.05(s, 1H), 9.51(s, 1H), 8.30(d, J=8.1Hz, 1H), 7.94(m, 1H), 7.83(d, J=8.1Hz, 1H), 7.65(d, J=8.7Hz, 1H), 7.62-7.45(m, 5H), 7.26(dd, J=7.8, 1.8Hz, 1H), 7.20(d, J=7.8Hz, 1H), 6.73(d, J=2.4 Hz, 1H), 6.59(dd, J=8.7, 2.4Hz, 1H), 5.19(s, 2H), 4.70(q, J=6.9Hz, 1H), 3.80(s, 3H), 2.44(m, 2H), 2.42(s, 3H), 2.05(t, J=7.2Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.58(m, 2H).

8(102)

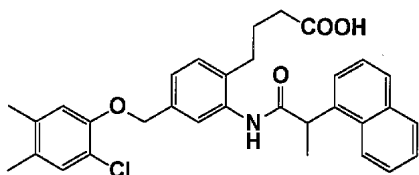
2-(2-((4- -2-(-1-))))-4-



TLC: Rf 0.70(: =10:1).

8(103)

4-(2-((2-(-1-))))-4-(2- -4,5-))

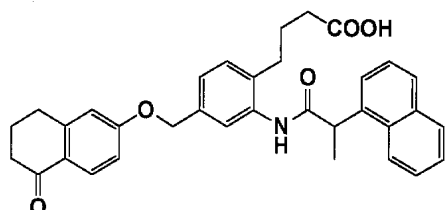


TLC: Rf 0.72(: =9:1);

NMR(300MHz, DMSO-d₆): 9.55(s, 1H), 8.31(d, J=8.4Hz, 1H), 7.94(d, J=8.7Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.60-7.47(m, 4H), 7.39(s, 1H), 7.19-7.17(m, 3H), 7.02(s, 1H), 5.06(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.44-2.42(m, 2H), 2.16(s, 3H), 2.11(s, 3H), 2.04(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.59-1.52(m, 2H).

8(104)

4-(2-((2-(1-)))-4-(1- -1,2,3,4- -6-))

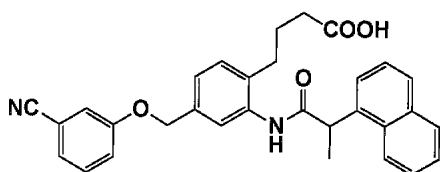


TLC: Rf 0.62(: =9:1);

NMR(300MHz, DMSO-d₆): 9.56(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(d, J=6.9Hz, 1H), 7.84-7.78(m, 2H), 7.59-7.47(m, 4H), 7.40(s, 1H), 7.19(brs, 2H), 6.93-6.91(m, 2H), 5.10(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.88(t, J=6.0Hz, 2H), 2.53-2.50(m, 2H), 2.44(dd, J=8.7, 5.4Hz, 2H), 2.05-1.97(m, 4H), 1.60(d, J=6.9Hz, 3H), 1.59-1.52(m, 2H).

8(105)

4-(2-((2-(1-)))-4-(3-))

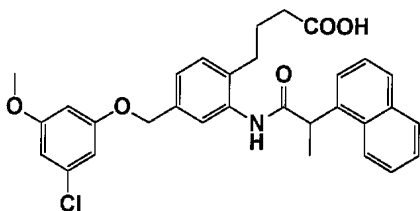


TLC: Rf 0.62(: =9:1);

NMR(300MHz, DMSO-d₆): 9.53(s, 1H), 8.30(d, J=8.1Hz, 1H), 7.94(d, J=7.5Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.62-7.45(m, 6H), 7.43-7.36(m, 2H), 7.32(m, 1H), 7.20(s, 2H), 5.09(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.48-2.41(m, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.6Hz, 3H), 1.58-1.54(m, 2H).

8(106)

4-(2-((2-(1-)))-4-(3- -5-))

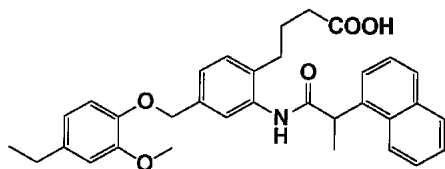


TLC: Rf 0.59(: =9:1);

NMR(300MHz, DMSO-d₆): 9.55(s, 1H), 8.31(d, J=8.4Hz, 1H), 7.94(d, J=7.2Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.61-7.47(m, 4H), 7.37(s, 1H), 7.18(s, 2H), 6.63(m, 1H), 6.59(m, 1H), 6.52(m, 1H), 5.02(s, 2H), 4.70(q, J=6.6 Hz, 1H), 3.72(s, 3H), 2.49-2.41(m, 2H), 2.02(t, J=7.2Hz, 2H), 1.60(d, J=6.6Hz, 3H), 1.59-1.51(m, 2H).

8(107)

4-(2-((2-(1-)))-4-(4- -2-))

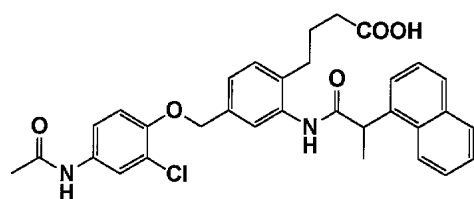


TLC: Rf 0.60(: =9:1);

NMR(300MHz, DMSO-d₆): 9.54(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.95(d, J=7.8Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.61-7.47(m, 4H), 7.36(s, 1H), 7.17(s, 2H), 6.88(d, J=8.4Hz, 1H), 6.80(d, J=1.5Hz, 1H), 6.65(dd, J=8.4, 1.5Hz, 1H), 4.94(s, 2H), 4.69(q, J=6.9Hz, 1H), 3.72(s, 3H), 2.52(q, J=7.5Hz, 2H), 2.43(dd, J=8.7, 5.4Hz, 2H), 2.03(t, J=7.5Hz, 2H), 1.60(d, J=6.9Hz, 3H), 1.59-1.52(m, 2H), 1.14(t, J=7.5Hz, 3H).

8(108)

4-(2-((2-(-1-))))-4-(4- -2-))

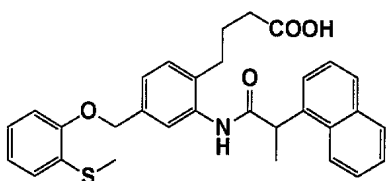


TLC: Rf 0.49(: =9:1);

NMR(300MHz, DMSO-d₆): 9.95(s, 1H), 9.56(s, 1H), 8.31(d, J=8.4Hz, 1H), 7.94(d, J=8.4Hz, 1H), 7.83(d, J=7.8Hz, 1H), 7.76(d, J=2.4Hz, 1H), 7.61-7.47(m, 4H), 7.39(brs, 1H), 7.34(dd, J=8.7, 2.4Hz, 1H), 7.19(s, 2H), 7.13(d, J=8.7Hz, 1H), 5.07(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.47-2.41(m, 2H), 2.03(t, J=7.5Hz, 2H), 2.00(s, 3H), 1.59(d, J=6.9Hz, 3H), 1.59-1.53(m, 2H).

8(109)

4-(2-((2-(-1-))))-4-(2-))

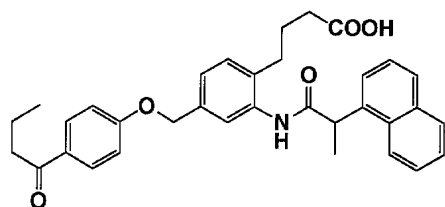


TLC: Rf 0.62(: =9:1);

NMR(300MHz, DMSO-d₆): 9.56(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.94(d, J=7.2Hz, 1H), 7.83(d, J=8.1Hz, 1H), 7.62-7.47(m, 4H), 7.39(s, 1H), 7.24-6.93(m, 6H), 5.08(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.47-2.40(m, 2H), 2.35(s, 3H), 2.04(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H), 1.59-1.53(m, 2H).

8(110)

4-(2-((2-(-1-))))-4-(4-))

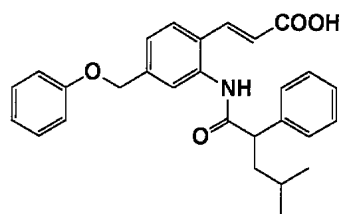


TLC: Rf 0.62(: =9:1);

NMR(300MHz, DMSO-d₆): 9.55(s, 1H), 8.31(d, J=8.1Hz, 1H), 7.96-7.90(m, 3H), 7.83(d, J=7.8Hz, 1H), 7.61-7.47(m, 4H), 7.40(brs, 1H), 7.19(s, 2H), 7.07(d, J=9.0Hz, 2H), 5.12(s, 2H), 4.70(q, J=6.9Hz, 1H), 2.91(t, J=7.2Hz, 2H), 2.44(dd, J=8.7, 5.7Hz, 2H), 2.03(t, J=7.2Hz, 2H), 1.68-1.52(m, 4H), 1.60(d, J=6.9Hz, 3H), 0.90(t, J=7.5Hz, 3H).

_____ 8(111)

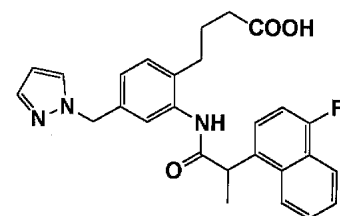
(2E)-3-(2-((4- -2-))-4-)-2-



TLC: Rf 0.39(: =9:1).

_____ 8(112)

4-(2-((2-(4- -1-)))-4-(-1-))

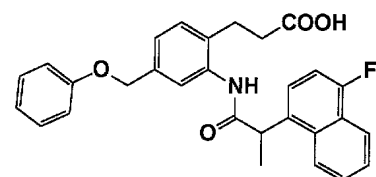


TLC: Rf 0.30();

NMR(300MHz, DMSO-d₆): 12.03(s, 1H), 9.51(s, 1H), 8.34(d, J=8.1Hz, 1H), 8.11-8.08(m, 1H), 7.77(d, J=2.1Hz, 1H), 7.72-7.62(m, 2H), 7.54(dd, J=8.1, 5.7Hz, 1H), 7.42(d, J=2.1Hz, 1H), 7.32(dd, J=10.5, 8.1Hz, 1H), 7.15-7.10(m, 2H), 6.95(dd, J=8.1, 1.5Hz, 1H), 6.23(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.63(q, J=6.9Hz, 1H), 2.38(t, J=7.8Hz, 2H), 1.98(t, J=7.8Hz, 2H), 1.58(d, J=6.9Hz, 3H), 1.54-1.49(m, 2H).

_____ 8(113)

3-(2-((2-(4- -1-)))-4-)

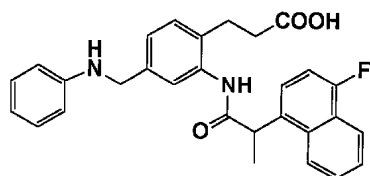


TLC: Rf 0.39(: =1:1, 0.5%);

NMR(300MHz, DMSO-d₆): 12.13(s, 1H), 9.64(s, 1H), 8.34(m, 1H), 8.10(m, 1H), 7.74-7.61(m, 2H), 7.54(dd, J=8.1, 5.7Hz, 1H), 7.36-7.17(m, 6H), 6.99-6.88(m, 3H), 5.01(s, 2H), 4.66(q, J=6.9Hz, 1H), 2.72(t, J=7.5Hz, 2H), 2.36(t, J=7.5Hz, 2H), 1.59(d, J=6.9Hz, 3H).

8(114)

3-(2-((2-(4- -1-)))-4-)

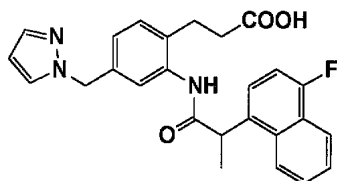


TLC: Rf 0.33(: =1:1, 0.5%);

NMR(300MHz, DMSO-d₆): 12.12(br, 1H), 9.67(bs, 1H), 8.33(m, 1H), 8.09(m, 1H), 7.71-7.60(m, 2H), 7.53(dd, J=7.2, 6.6Hz, 1H), 7.34-7.22(m, 2H), 7.17-7.07(m, 2H), 7.04-6.95(m, 2H), 6.55-6.44(m, 3H), 6.17(t, J=5.7Hz, 1H), 4.63(q, J=6.9Hz, 1H), 4.16(d, J=5.7Hz, 2H), 2.67(t, J=7.5Hz, 2H), 2.33(t, J=7.5Hz, 2H), 1.58(d, J=6.9Hz, 3H).

8(115)

3-(2-((2-(4- -1-)))-4-(-1-))

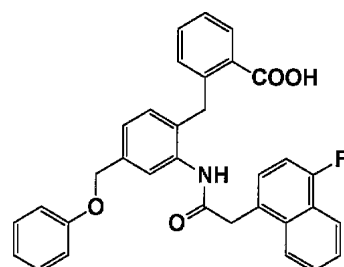


TLC: Rf 0.19(: =1:2, 0.5%);

NMR(300MHz, DMSO-d₆): 12.12(br, 1H), 9.64(bs, 1H), 8.32(m, 1H), 8.09(m, 1H), 7.76(d, J=2.1Hz, 1H), 7.73-7.61(m, 2H), 7.53(dd, J=7.8, 5.7Hz, 1H), 7.42(d, J=2.1Hz, 1H), 7.30(dd, J=10.5, 7.8Hz, 1H), 7.16(d, J=7.8Hz, 1H), 7.13(d, J=1.5Hz, 1H), 6.95(dd, J=7.8, 1.5Hz, 1H), 6.23(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.63(q, J=6.9Hz, 1H), 2.67(t, J=7.8Hz, 2H), 2.34(t, J=7.8Hz, 2H), 1.57(d, J=6.9Hz, 3H).

8(116)

2-(2-((2-(4- -1-)))-4-)



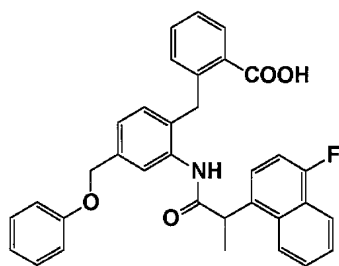
TLC: Rf 0.56(: =10:1);

NMR(300MHz, DMSO-d₆): 9.79(s, 1H), 8.12-8.02(m, 2H), 7.87(m, 1H), 7.67-7.52(m, 3H), 7.47-7.11(m,

7H), 7.06-6.87(m, 5H), 5.02(s, 2H), 4.35(s, 2H), 4.11(s, 2H).

8(117)

2-(2-((2-(4- -1-)))-4-)

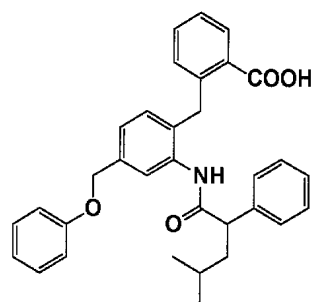


TLC: Rf 0.60(: =10:1);

NMR(300MHz, DMSO-d₆): 9.70(s, 1H), 8.26(m, 1H), 8.07(m, 1H), 7.79(m, 1H), 7.68-7.53(m, 3H), 7.45(m, 1H), 7.41-7.21(m, 5H), 7.16(m, 1H), 7.04-6.86(m, 5H), 5.03(s, 2H), 4.62(q, J=6.9Hz, 1H), 4.27(s, 2H), 1.48(d, J=6.9Hz, 3H).

8(118)

2-(2-((4- -2-))-4-)

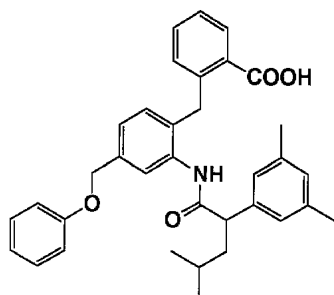


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.15(brs, 1H), 8.00-7.94(m, 1H), 7.94-7.88(m, 1H), 7.44-7.34(m, 1H), 7.32-7.02(m, 11H), 7.00-6.90(m, 3H), 5.02(s, 2H), 4.20(s, 2H), 3.55(t, J=7.5Hz, 1H), 2.00-1.30(m, 3H), 0.85(d, J=6.0Hz, 6H).

8(119)

2-(2-((4- -2-(3,5-)))-4-)

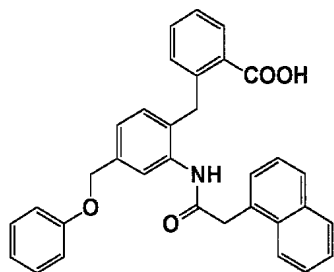


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.16(brs, 1H), 7.95(d, J=7.5Hz, 1H), 7.84(brs, 1H), 7.42-7.34(m, 1H), 7.32-6.90(m, 9H), 6.81(s, 3H), 5.02(s, 2H), 4.25(d, J=16.2Hz, 1H), 4.15(d, J=16.2Hz, 1H), 3.47(t, J=7.8Hz, 1H), 2.22(s, 6H), 2.04-1.90(m, 1H), 1.66-1.55(m, 1H), 1.50-1.30(m, 1H), 0.85(d, J=6.6Hz, 6H).

8(120)

2-(2-((2-(1-))))-4-

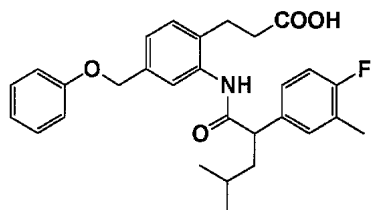


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.08(s, 1H), 8.00-7.89(m, 2H), 7.82-7.73(m, 1H), 7.72-7.66(m, 1H), 7.52(brs, 1H), 7.49-7.38(m, 2H), 7.34-7.18(m, 5H), 7.16-7.10(m, 1H), 7.02-6.90(m, 4H), 6.84-6.76(m, 1H), 5.01(s, 2H), 4.09(s, 2H), 3.88(s, 2H).

8(121)

3-(2-((4-2-(4-3-))))-4-

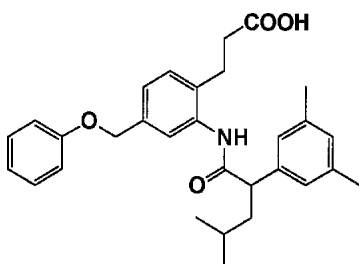


TLC: Rf 0.41(: =19:1);

NMR(300MHz, CDCl₃): 8.23(s, 1H), 7.80(s, 1H), 7.33-7.09(m, 6H), 7.00-6.90(m, 4H), 4.98(s, 2H), 3.62(t, J=7.7Hz, 1H), 2.70-2.55(m, 4H), 2.25(s, 3H), 2.10(m, 1H), 1.74(m, 1H), 1.54(m, 1H), 0.95(d, J=6.6Hz, 3H), 0.93(d, J=6.6Hz, 3H).

8(122)

3-(2-((4-2-(3,5-))))-4-



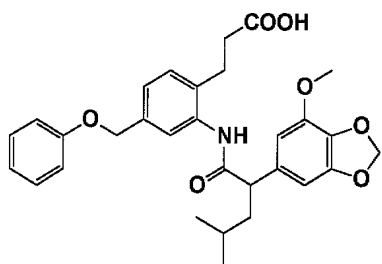
TLC: Rf 0.30(: =1:2);

NMR(300MHz, DMSO-d₆): 12.09(s, 1H), 9.51(s, 1H), 7.30-7.15(m, 5H), 6.99-6.84(m, 6H), 5.00(s, 2H), 3.79-3.74(m, 1H), 2.70(t, J=7.5Hz, 2H), 2.32(t, J=7.5Hz, 2H), 2.24(s, 6H), 2.02-1.94(m, 1H), 1.54-1.39(m, 2H)

H), 0.93(d, J=6.0Hz, 3H), 0.89(d, J=6.0Hz, 3H).

8(123)

3-(2-((4-(2-(4-(1,3-(6-)))-4-))



[]

TLC: Rf 0.50();

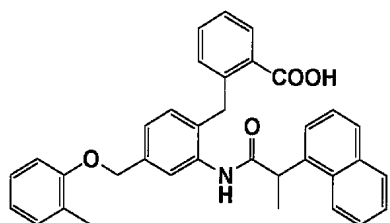
NMR(300MHz, CDCl₃): 8.29(s, 1H), 7.82(s, 1H), 7.30-7.12(m, 4H), 6.97-6.93(m, 3H), 6.61(d, J=6.0Hz, 2H), 5.93(s, 2H), 4.99(s, 2H), 3.89(s, 3H), 3.58(t, J=7.5Hz, 1H), 2.70-2.64(m, 4H), 2.12-2.02(m, 1H), 1.79-1.69(m, 1H), 1.61-1.52(m, 1H), 0.96-0.93(m, 6H).

[]

TLC: Rf 0.35(n- : =1:2).

8(124)

2-(2-((2-(1-)))-4-(2-))

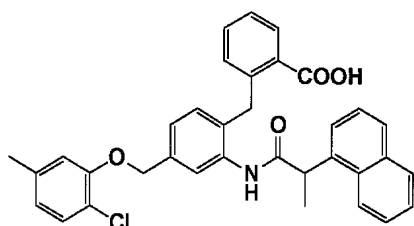


TLC: Rf 0.26(: =2:1, 0.5%);

NMR(300MHz, DMSO-d₆): 12.94(bs, 1H), 9.62(bs, 1H), 8.21(m, 1H), 7.92(m, 1H), 7.83-7.77(m, 2H), 7.57-7.25(m, 7H), 7.17-7.07(m, 3H), 7.00-6.79(m, 4H), 5.03(s, 2H), 4.64(q, J=6.9Hz, 1H), 4.28(d, J=16.5Hz, 1H), 4.23(d, J=16.5Hz, 1H), 2.15(s, 3H), 1.48(d, J=6.9Hz, 3H).

8(125)

2-(2-((2-(1-)))-4-(2-5-))

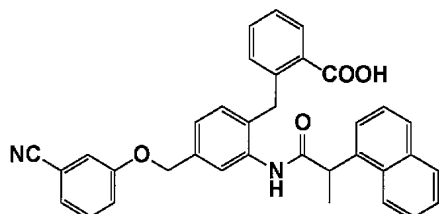


TLC: Rf 0.23(: =2:1, 0.5%);

NMR(300MHz, DMSO-d₆): 12.94(bs, 1H), 9.64(bs, 1H), 8.22(m, 1H), 7.92(m, 1H), 7.83-7.77(m, 2H), 7.58-7.25(m, 8H), 7.15(dd, J=8.1, 1.5Hz, 1H), 7.06(d, J=1.5Hz, 1H), 6.97-6.88(m, 2H), 6.76(dd, J=8.1, 1.5Hz, 1H), 5.09(s, 2H), 4.65(q, J=7.5Hz, 1H), 4.29(d, J=16.5Hz, 1H), 4.23(d, J=16.5Hz, 1H), 2.26(s, 3H), 1.48(d, J=7.5 Hz, 3H).

8(126)

2-(2-((2-(-1-))))-4-(3-))

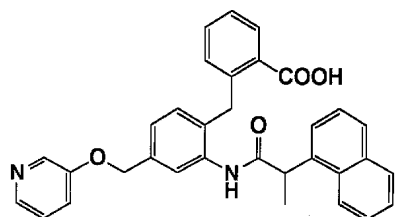


TLC: Rf 0.17(: =2:1, 0.5%);

NMR(300MHz, DMSO-d₆): 12.95(s, 1H), 9.63(s, 1H), 8.20(m, 1H), 7.91(m, 1H), 7.83-7.76(m, 2H), 7.57-7.25(m, 11H), 7.14(dd, J=8.1, 1.5Hz, 1H), 6.96-6.87(m, 2H), 5.09(s, 2H), 4.64(q, J=6.9Hz, 1H), 4.29(d, J=16.5 Hz, 1H), 4.22(d, J=16.5Hz, 1H), 1.47(d, J=6.9Hz, 3H).

8(127)

2-(2-((2-(-1-))))-4-(-3-))

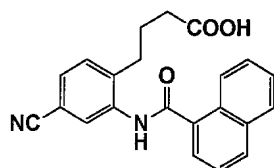


TLC: Rf 0.44(, 0.5%);

NMR(300MHz, DMSO-d₆): 12.95(bs, 1H), 9.75(bs, 1H), 8.31(bs, 1H), 8.23-8.12(m, 2H), 7.91(m, 1H), 7.82-7.75(m, 2H), 7.57(bs, 1H), 7.54-7.24(m, 8H), 7.14(m, 1H), 6.96-6.88(m, 2H), 5.09(s, 2H), 4.66(q, J=6.9Hz, 1H), 4.29(d, J=16.5Hz, 1H), 4.22(d, J=16.5Hz, 1H), 1.47(d, J=6.9Hz, 3H).

8(128)

4-(2-(-1-)) -4-()

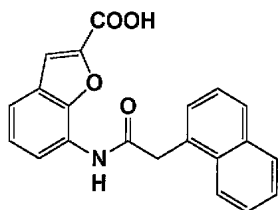


TLC: Rf 0.30();

NMR(300MHz, DMSO-d₆): 12.10(s, 1H), 10.30(s, 1H), 8.29-8.26(m, 1H), 8.10-8.00(m, 3H), 7.83(dd, J=7.2, 0.9Hz, 1H), 7.70(dd, J=7.8, 1.8Hz, 1H), 7.65-7.58(m, 3H), 7.52(d, J=8.1Hz, 1H), 2.78(t, J=7.8Hz, 2H), 2.26(t, J=7.5Hz, 2H), 1.88-1.78(m, 2H).

8(129)

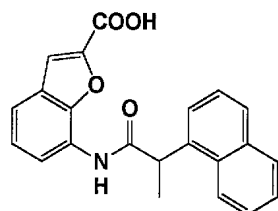
7-((2-(1-)))-2-



TLC: Rf 0.43(: : =90:10:1);

NMR(300MHz, DMSO-d₆): 10.56(s, 1H), 8.18(d, J=8.1Hz, 1H), 7.97-7.81(m, 3H), 7.70(d, J=0.6Hz, 1H), 7.62-7.43(m, 5H), 7.26(t, J=7.8Hz, 1H), 4.31(s, 2H).8(130)

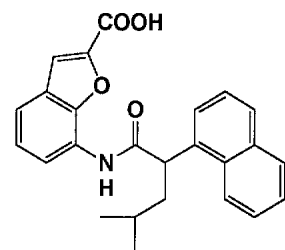
7-((2-(1-)))-2-



TLC: Rf 0.46(: : =90:10:1);

NMR(300MHz, DMSO-d₆): 10.4(s, 1H), 8.32(d, J=8.4Hz, 1H), 7.94(d, J=8.4Hz, 1H), 7.86-7.78(m, 2H), 7.69-7.45(m, 6H), 7.27(m, 1H), 4.91(q, J=6.9Hz, 1H), 1.58(d, J=6.9Hz, 3H).8(131)

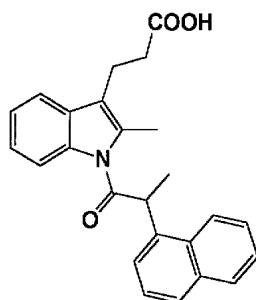
7-((4-2-(1-)))-2-



TLC: Rf 0.48(: : =90:10:1);

NMR(300MHz, DMSO-d₆): 10.5(s, 1H), 8.42(d, J=8.4Hz, 1H), 7.94(d, J=8.1Hz, 1H), 7.86(d, J=7.8Hz, 1H), 7.82(d, J=7.8Hz, 1H), 7.74-7.60(m, 3H), 7.58-7.44(m, 3H), 7.27(m, 1H), 4.93(m, 1H), 2.12(m, 1H), 1.76-1.53(m, 2H), 1.07(d, J=6.3Hz, 3H), 0.93(d, J=6.3Hz, 3H).8(132)

2-(1-(2-(1-)))-3-)

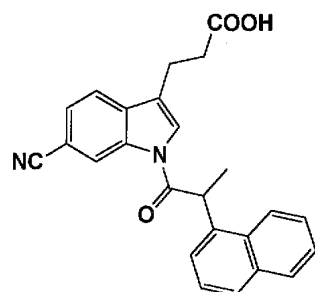


TLC: Rf 0.46(: =19:1);

NMR(300MHz, CDCl₃): 8.00(d, J=8.1Hz, 1H), 7.89(d, J=8.1Hz, 1H), 7.84(d, J=8.1Hz, 1H), 7.75(d, J=8.1Hz, 1H), 7.60-7.34(m, 5H), 7.18(dd, J=7.5, 7.5Hz, 1H), 7.09(dd, J=7.5, 7.5Hz, 1H), 5.38(q, J=6.6Hz, 1H), 2.94(t, J=7.5Hz, 2H), 2.57(t, J=7.5Hz, 2H), 2.46(s, 3H), 1.78(d, J=6.6Hz, 3H).

8(136)

3-(6- -1-(2-(-1-)) -3-)

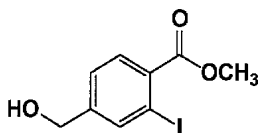


TLC: Rf 0.44(n- : : =100:100:1);

NMR(300MHz, DMSO-d₆): 8.72(s, 1H), 8.30(d, J=8.7Hz, 1H), 7.98(d, J=8.1Hz, 1H), 7.85(d, J=7.5Hz, 1H), 7.81-7.77(m, 2H), 7.69-7.55(m, 3H), 7.47-7.39(m, 2H), 5.59(q, J=6.9Hz, 1H), 2.86-2.67(m, 2H), 2.53-2.35(m, 2H), 1.64(d, J=6.9Hz, 3H).

16

4- -2-

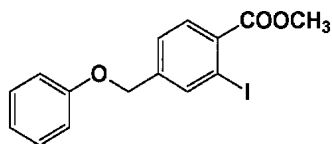


2- -4- , 2 12

NMR(300MHz, CDCl₃): 8.02-8.01(m, 1H), 7.81(d, J=8.1Hz, 1H), 7.41-7.37(m, 1H), 4.71(s, 2H), 3.93(s, 3H).

17

2- -4-



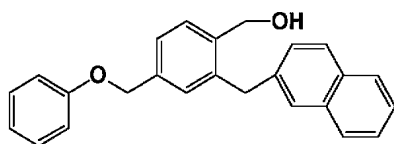
16 (3.66 g) (20 Mℓ) , 0 (1.07 Mℓ), (1.92 Mℓ) 가 10 가 ,

1 (525 mg, 63.1%) N,N- (5 Mℓ) (1.30 g) 가 , 1N 가 , N,N- (10 Mℓ) 가 10 (4.44 g)

NMR(300MHz, CDCl₃): 8.08(s, 1H), 7.82(d, J=8.1Hz, 1H), 7.48-7.45(m, 1H), 7.33-7.28(m, 2H), 7.02-6.94(m, 3H), 5.05(s, 2H), 3.93(s, 3H).

18

2-(-2-)-4-



(710 mg) (2 Mℓ) (1) 가 , (1.20 g) (3 Mℓ) 가 , 1.5

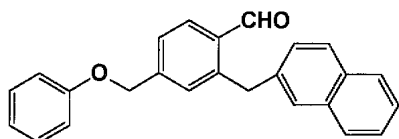
(156 mg) (151 mg) (2 Mℓ)) 가 17 (1.00 g) (3 Mℓ) 가 , 30 가 2-(2-)-4-

(206 mg) (2 Mℓ))-4- (3 Mℓ)- (3 Mℓ) 가 2-(2- 30 , 1N 가 , (974 mg)

NMR(300MHz, CDCl₃): 7.82-7.71(m, 3H), 7.53-7.35(m, 5H), 7.30-7.25(m, 4H), 6.98-6.93(m, 3H), 5.04(s, 2H), 4.69(d, J=4.8Hz, 2H), 4.26(s, 2H), 1.46-1.44(m, 1H).

19

2-(-2-)-4-

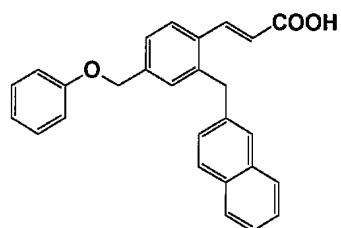


18 (974 mg) (5 Mℓ) , 0 (1 Mℓ), (1.17 Mℓ) (671 mg) 가 1 , (871 mg)

NMR(300MHz, CDCl₃): 10.27(s, 1H), 7.90(d, J=7.5Hz, 1H), 7.80-7.70(m, 3H), 7.53-7.25(m, 8H), 7.00-6.92(m, 3H), 5.10(s, 2H), 4.62(s, 2H).

9

(2E)-3-(2-(-2-)-4-)-2-



19 (871 mg) (5 Mℓ) (574 mg) (0.16 Mℓ) 가 120 1N 가 , n- (810 mg)

TLC: Rf 0.60();

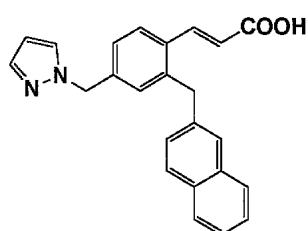
NMR(300MHz, CDCl₃): 8.17(d, J=15.6Hz, 1H), 7.80-7.65(m, 4H), 7.52(s, 1H), 7.44-7.37(m, 3H), 7.31-7.25(m, 4H), 6.99-6.93(m, 3H), 6.35(d, J=15.6Hz, 1H), 5.05(s, 2H), 4.31(s, 2H).

9(1) 9(6)

, 9

9(1)

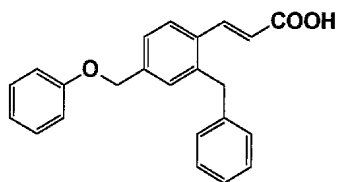
(2E)-3-(2-(-2-)-4-(-1-))-2-



TLC: Rf 0.50().

9(2)

(2E)-3-(2- -4-)-2-

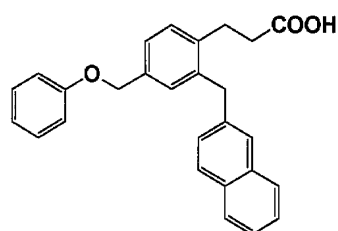


TLC: Rf 0.24(: =9:1);

NMR(300MHz, CDCl₃): 8.10(d, J=15.9Hz, 1H), 7.64(d, J=8.1Hz, 1H), 7.40-7.10(m, 9H), 7.00-6.93(m, 3H), 6.34(d, J=15.9Hz, 1H), 5.06(s, 2H), 4.15(s, 2H).

_____ 9(3)

3-(2-(-2-)-4-)

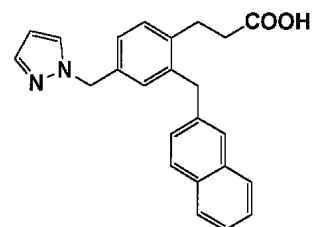


TLC: Rf 0.65();

NMR(300MHz, DMSO-d₆): 12.10(s, 1H), 7.87-7.75(m, 3H), 7.58(s, 1H), 7.49-7.41(m, 2H), 7.31-7.22(m, 6H), 6.97-6.89(m, 3H), 5.02(s, 2H), 4.18(s, 2H), 2.84(t, J=8.1Hz, 2H), 2.39(t, J=8.1Hz, 2H).

_____ 9(4)

3-(2-(-2-)-4-(-1-))

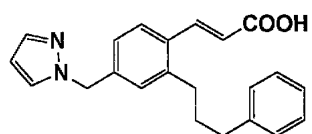


TLC: Rf 0.45();

NMR(300MHz, DMSO-d₆): 12.08(s, 1H), 7.87-7.76(m, 4H), 7.56(s, 1H), 7.48-7.41(m, 3H), 7.27(dd, J=8.1, 1.5Hz, 1H), 7.17(d, J=8.1Hz, 1H), 7.08(s, 1H), 6.99(dd, J=8.1, 1.5Hz, 1H), 6.22(t, J=2.1Hz, 1H), 5.25(s, 2H), 4.14(s, 2H), 2.80(t, J=7.8Hz, 2H), 2.36(t, J=7.8Hz, 2H).

_____ 9(5)

(2E)-3-(2-(3-)-4-(-1-))-2-

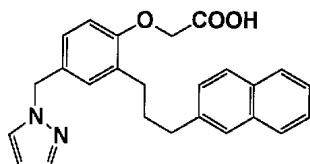


TLC: Rf 0.35(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 8.01(d, J=15.9Hz, 1H), 7.59-7.53(m, 2H), 7.40(d, J=2.1Hz, 1H), 7.32-7.25(m, 2H), 7.22-7.14(m, 3H), 7.08-7.02(m, 2H), 6.35(d, J=15.9Hz, 1H), 6.30(t, J=2.1Hz, 1H), 5.32(s, 2H), 2.75(t, J=7.5 Hz, 2H), 2.66(t, J=7.5Hz, 2H), 1.89(m, 2H).

9(6)

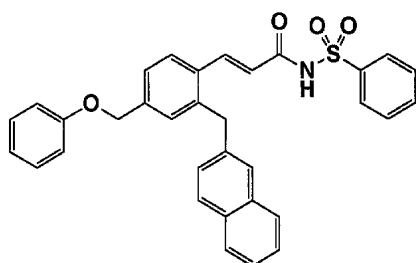
2-(2-(3-(-2-))-4-(-1-))



TLC: Rf 0.20(: =10:1).

10

(2E)-N- -3-(2-(-2-)-4-)-2-



3-(9)] (200 mg) N,N- (1 Mℓ) (120 mg), 1- -3-[
 (146 mg) 가 (19 mg) 가
 (151 mg)

TLC: Rf 0.55(n- : =1:1);

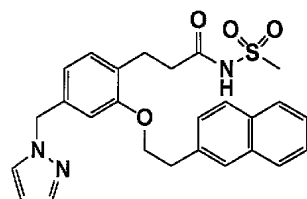
NMR(300MHz, DMSO-d₆): 12.27(s, 1H), 7.94-7.22(m, 18H), 6.97-6.89(m, 3H), 6.46(d, J=15.6Hz, 1H), 5.10(s, 2H), 4.26(s, 2H).

10(1) 10(225)

10

10(1)

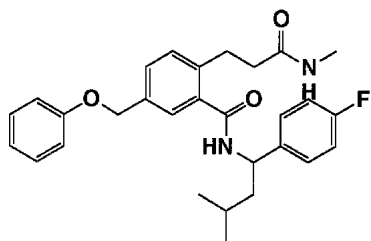
N- -3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.39(: =1:1);

10(5)

N-(4-(2-(3-(2-((3-(1-(4-()))-4-()

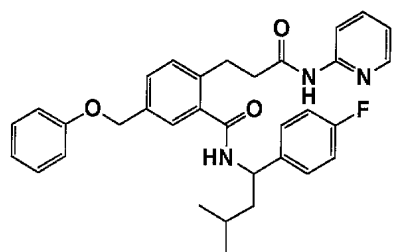


TLC: Rf 0.52(: =19:1);

NMR(300MHz, CDCl₃): 7.45-7.22(m, 7H), 7.09-6.93(m, 6H), 5.86(m, 1H), 5.19(m, 1H), 5.02(s, 2H), 3.05-2.85(m, 2H), 2.68(d, J=4.5Hz, 3H), 2.52(t, J=7.5Hz, 2H), 1.81(m, 1H), 1.73-1.53(m, 2H), 0.98(t, J=6.6Hz, 6H).

10(6)

N-(4-(2-(3-(2-((3-(1-(4-()))-4-()

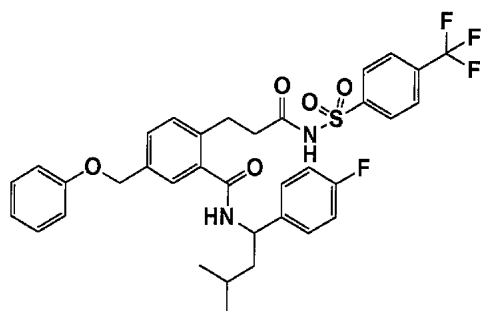


TLC: Rf 0.40(: =1:1);

NMR(300MHz, CDCl₃): 8.28-8.25(m, 1H), 8.16-8.10(m, 2H), 7.71-7.64(m, 1H), 7.45-7.27(m, 7H), 7.04-6.94(m, 6H), 6.87(d, J=8.1Hz, 1H), 5.24(q, J=8.1Hz, 1H), 5.02(s, 2H), 3.15-2.98(m, 2H), 2.75(t, J=7.5Hz, 2H), 1.88-1.78(m, 1H), 1.74-1.57(m, 2H), 1.00-0.97(m, 6H).

10(7)

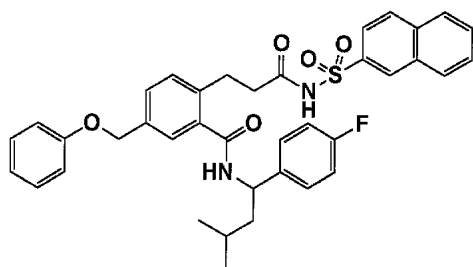
N-(4-(2-(3-(2-((3-(1-(4-()))-4-()



TLC: Rf 0.60(: =10:1).

10(8)

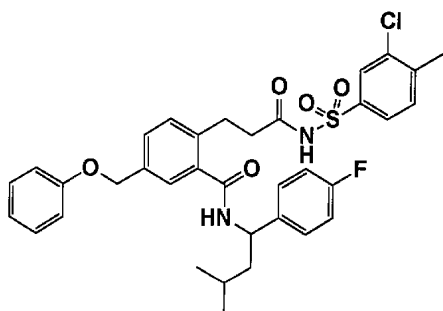
N-(4-(2-(3-(2-((3-(1-(4-()))-4-()



TLC: Rf 0.62(: =10:1).

10(9)

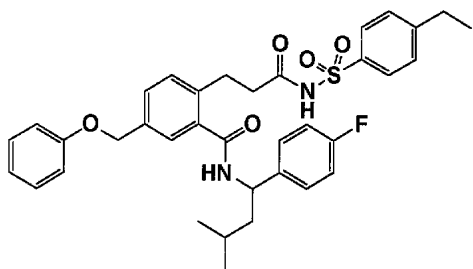
N-(3-(4-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.62(: =10:1).

10(10)

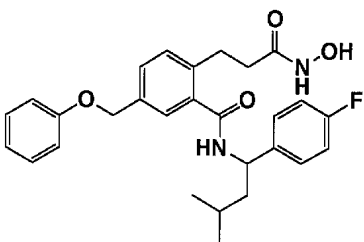
N-(4-()-3-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.64(: =10:1).

10(11)

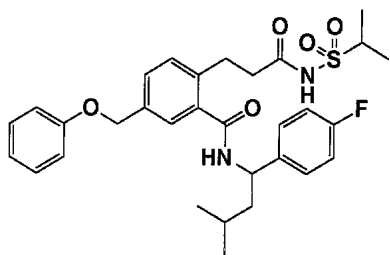
N-(3-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.60().

10(12)

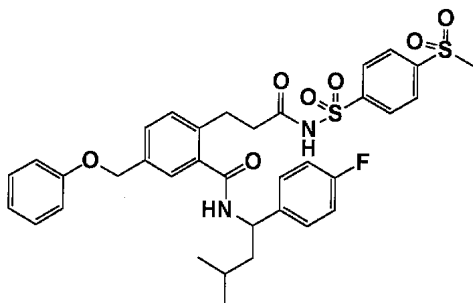
N-(4-(benzyloxy)phenyl)-3-(2-((3-(4-isobutylphenyl)propanoyl)amino)propanoyl)-4-(4-isobutylphenyl)propanamide



TLC: Rf 0.80(: =10:1).

10(13)

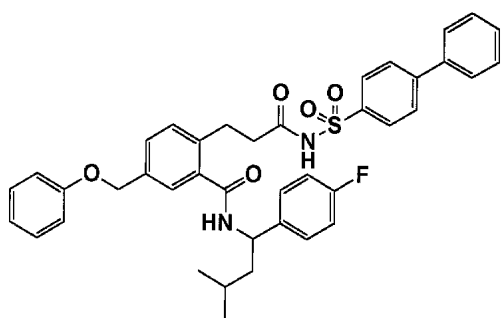
N-(4-(benzyloxy)phenyl)-3-(2-((3-(4-isobutylphenyl)propanoyl)amino)propanoyl)-4-(4-(4-isobutylphenyl)oxy)phenylpropanamide



TLC: Rf 0.61(: =10:1).

10(14)

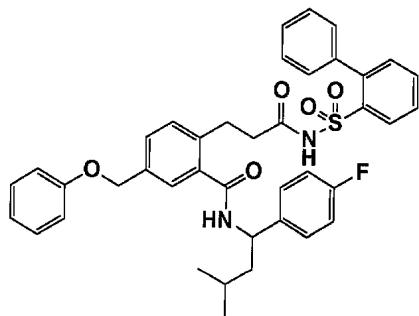
N-((1,1'-bis(4-(benzyloxy)phenyl)ethane)-3-(2-((3-(4-isobutylphenyl)propanoyl)amino)propanoyl)-4-(4-isobutylphenyl)propanamide



TLC: Rf 0.80(: =10:1).

10(15)

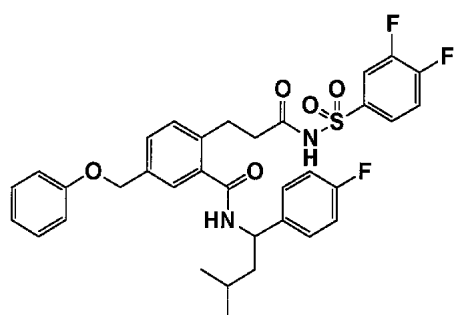
N-((1,1'-bis(2-(4-(benzyloxy)phenyl)ethyl)ethane)-3-(2-((3-(4-isobutylphenyl)propanoyl)amino)propanoyl)-4-(4-isobutylphenyl)propanamide



TLC: Rf 0.57(: =10:1).

10(16)

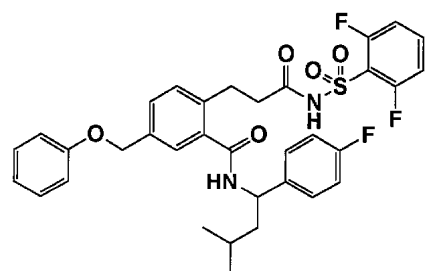
N-(3,4-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.57(: =10:1).

10(17)

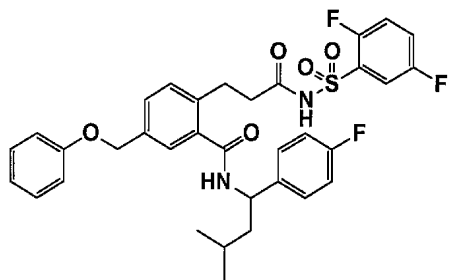
N-(2,6-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.55(: =10:1).

10(18)

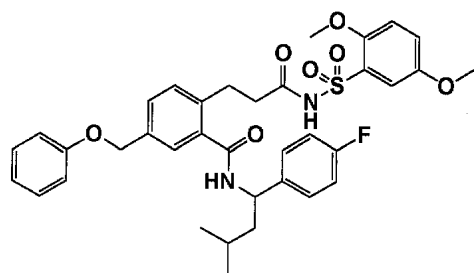
N-(2,5-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.59(: =10:1).

10(19)

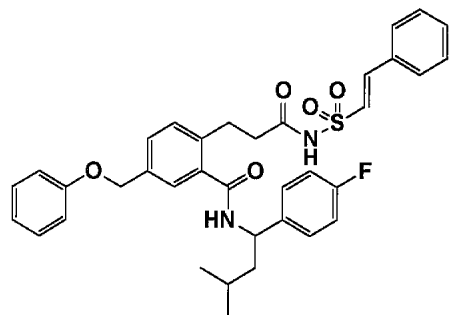
N-(2,5-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.52(: =10:1).

10(20)

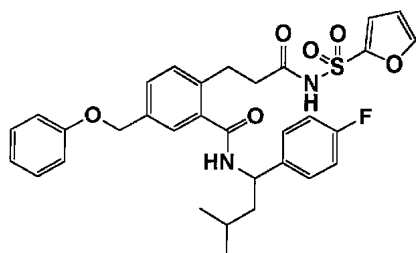
N-((E)-2-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.78(: =10:1).

10(21)

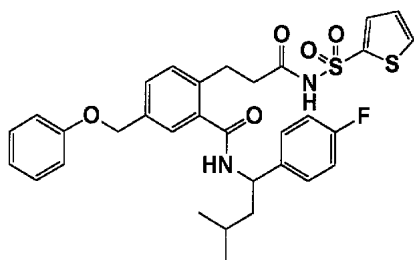
N-(-2-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.61(: =10:1).

10(22)

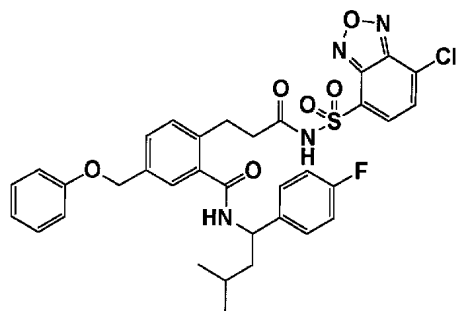
N-(2-(4-(3-(2-(4-(3-(1-(4-())))))))))-4-



TLC: Rf 0.62(: =10:1).

10(23)

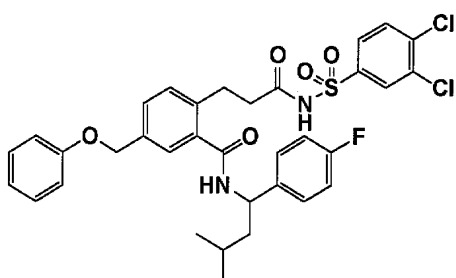
N-(7-(4-())-3-(2-(3-(1-(4-())))))-4-



TLC: Rf 0.56(: =10:1).

10(24)

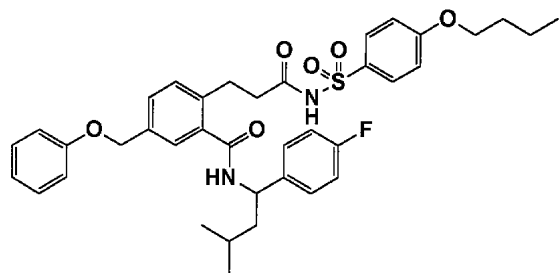
N-(3,4-())-3-(2-(3-(1-(4-())))))-4-



TLC: Rf 0.70(: =10:1).

10(25)

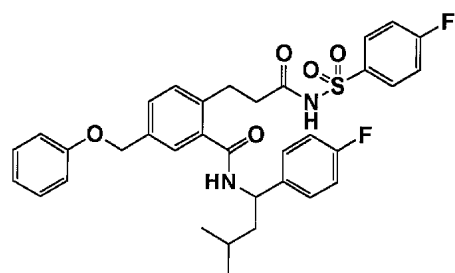
N-(4-())-3-(2-(3-(1-(4-())))))-4-



TLC: Rf 0.65(: =10:1).

10(33)

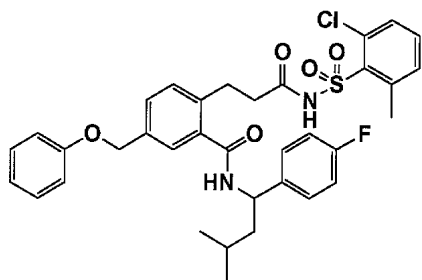
N-(4-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.68(: =10:1).

10(34)

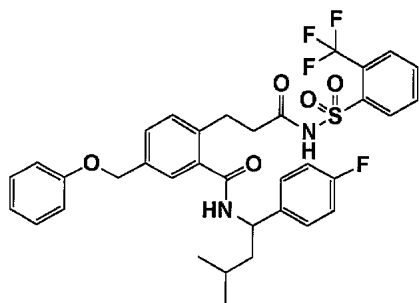
N-(2- -6-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.67(: =10:1).

10(35)

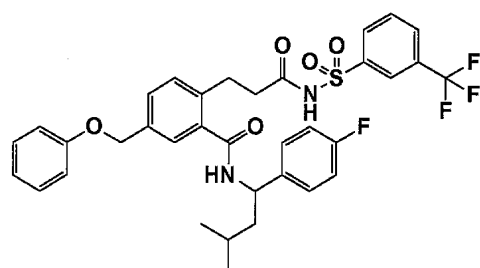
N-(2-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.62(: =10:1).

10(36)

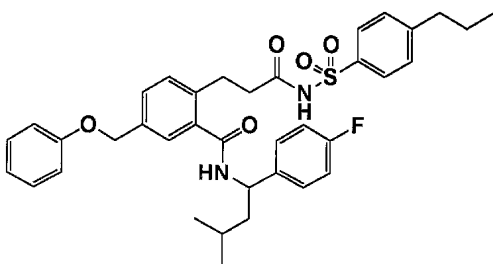
N-(3-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.67(: =10:1).

10(37)

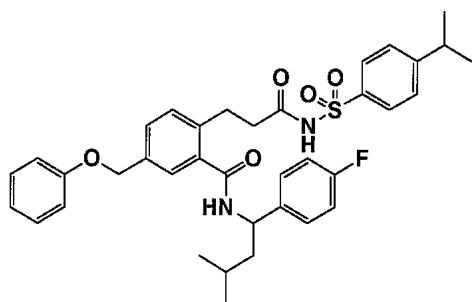
N-(4-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.71(: =10:1).

10(38)

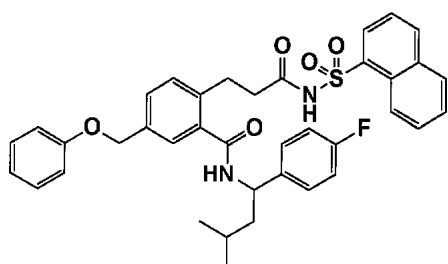
N-(4-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.69(: =10:1).

10(39)

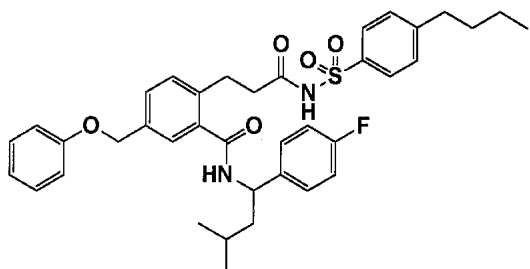
N-(4-isobutylphenyl)-2-(4-benzyloxyphenyl)-5-(4-fluorophenyl)-6-isobutyl-1H-benzimidazole-3-sulfonamide



TLC: Rf 0.76(: =10:1).

10(40)

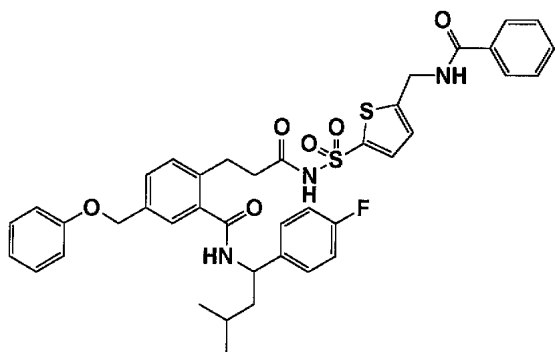
N-(4-isobutylphenyl)-2-(4-benzyloxyphenyl)-5-(4-fluorophenyl)-6-isobutyl-1H-benzimidazole-3-sulfonamide



TLC: Rf 0.71(: =10:1).

10(41)

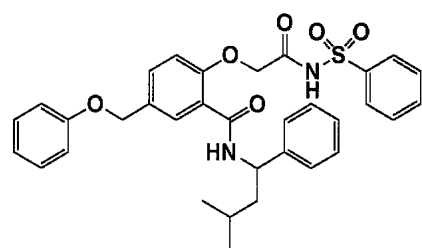
N-(4-isobutylphenyl)-2-(4-benzyloxyphenyl)-5-(4-fluorophenyl)-6-isobutyl-1H-benzimidazole-3-sulfonamide



TLC: Rf 0.58(: =10:1).

10(42)

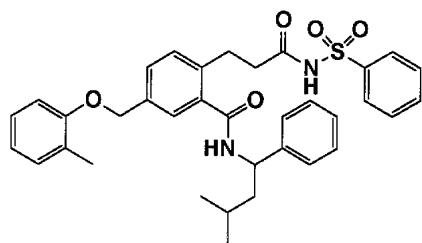
N- -2-(2-((3- -1-))-4-



TLC: Rf 0.65(: =5:1).

10(43)

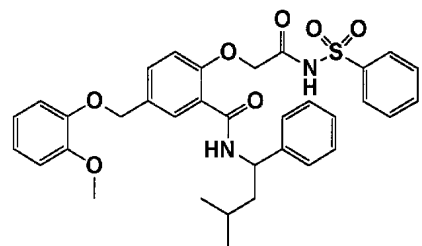
N- -2-(2-((3- -1-))-4-(2-



TLC: Rf 0.65(: =5:1).

10(44)

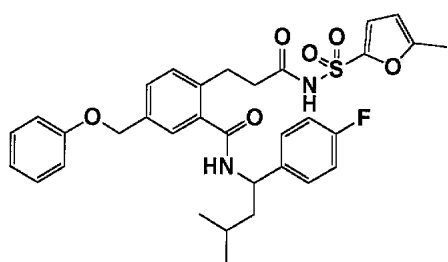
N- -2-(2-((3- -1-))-4-(2-



TLC: Rf 0.60(: =5:1).

10(45)

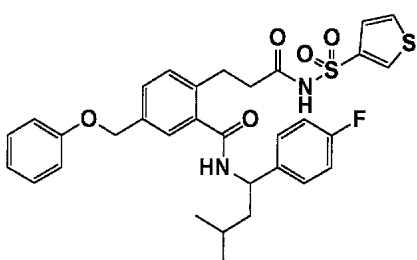
N-(5-(2-(3-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.80(: =10:1).

10(46)

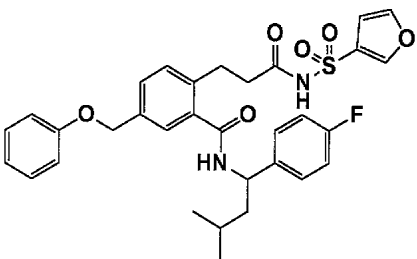
N-(3-(2-(3-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.80(: =10:1).

10(47)

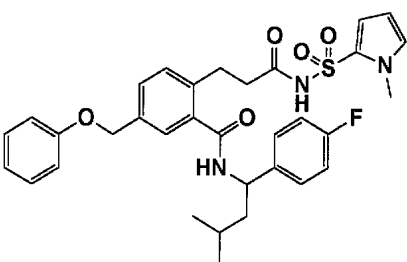
N-(3-(2-(3-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.78(: =10:1).

10(48)

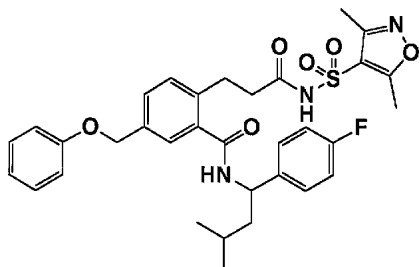
N-(1-(2-(3-(2-((3-(1-(4-()))-4-)



TLC: Rf 0.60(: =10:1).

10(49)

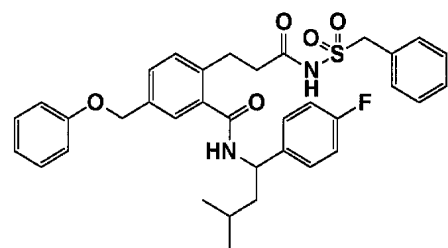
N-(3,5-) -4-)-3-(2-((3- -1-(4-))) -4-



TLC: Rf 0.80(: =10:1).

10(50)

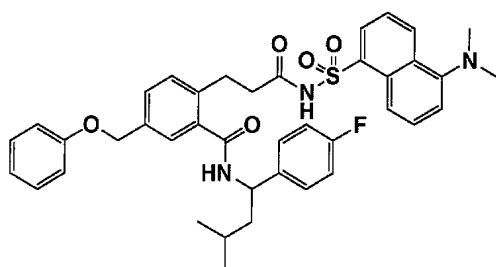
N- -3-(2-((3- -1-(4-))) -4-



TLC: Rf 0.81(: =10:1).

10(51)

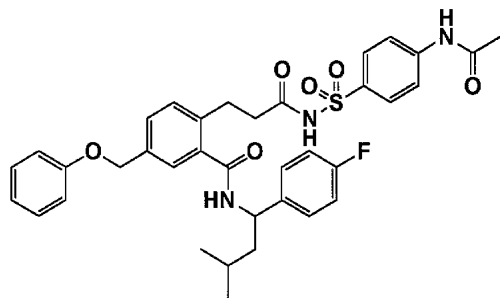
N-(5-) -1-)-3-(2-((3- -1-(4-))) -4-



TLC: Rf 0.66(: =10:1).

10(52)

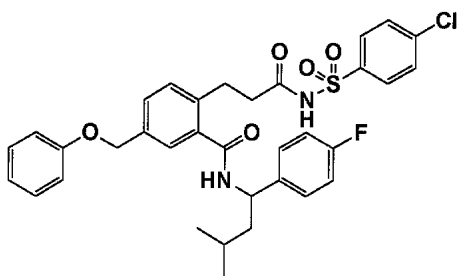
N-(4-) -3-(2-((3- -1-(4-))) -4-)



TLC: Rf 0.80(: =10:1).

10(53)

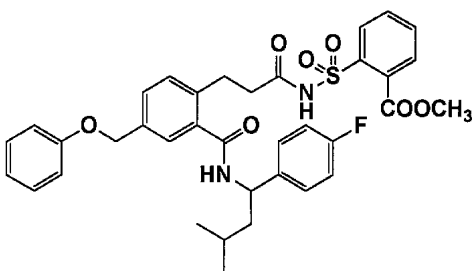
N-(4-)-3-(2-((3- -1-(4-))) -4-)



TLC: Rf 0.80(: =10:1).

10(54)

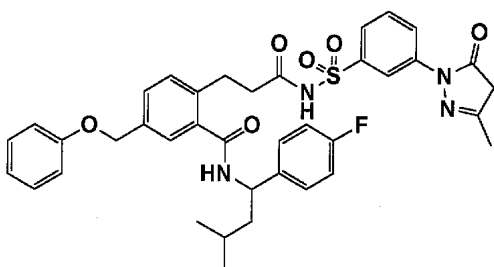
N-(2-)-3-(2-((3- -1-(4-))) -4-)



TLC: Rf 0.79(: =10:1).

10(55)

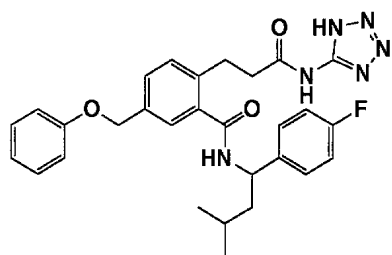
N-(3-(3- -5- -1-))-3-(2-((3- -1-(4-))) -4-



TLC: Rf 0.79(: =10:1).

10(56)

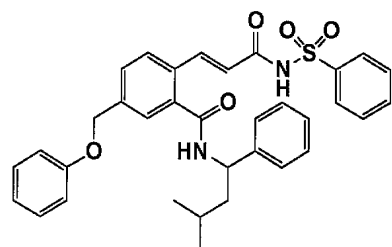
N-(-5-)-3-(2-((3- -1-(4-)))-4-)



TLC: Rf 0.65(: =3:1).

10(57)

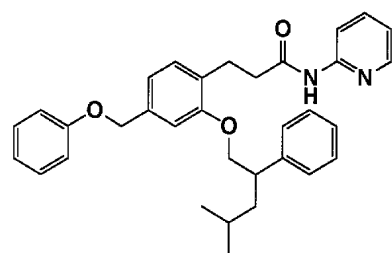
(2E)-N- -3-(2-((3- -1-))-4-)-2-



TLC: Rf 0.57(: =10:1).

10(58)

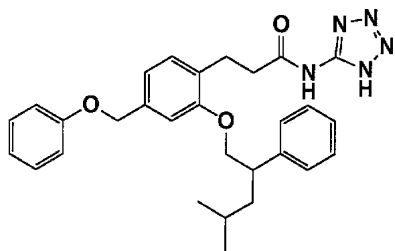
N-(-2-)-3-(2-(4- -2-)-4-)



TLC: Rf 0.35(: =3:1).

10(59)

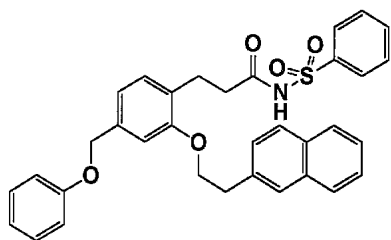
N-(-5-)-3-(2-(4- -2-)-4-)



TLC: Rf 0.25().

10(60)

N- -3-(2-(2-(-2-))-4-)

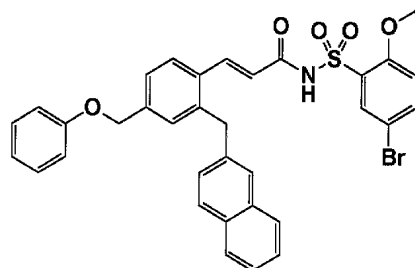


TLC: Rf 0.41(: =2:1);

NMR(300MHz, CDCl₃): 7.95-7.77(m, 5H), 7.70(brs, 1H), 7.63-7.40(m, 7H), 7.33-7.27(m, 2H), 7.00-6.93(m, 5H), 6.81(m, 1H), 4.99(s, 2H), 4.34(t, J=6.3Hz, 2H), 3.27(t, J=6.3Hz, 2H), 2.73(m, 2H), 2.10(m, 2H).

10(61)

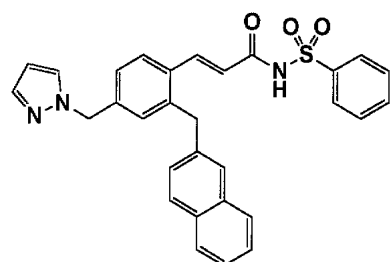
(2E)-N-(5- -2-)-3-(2-(-2-)-4-)-2-



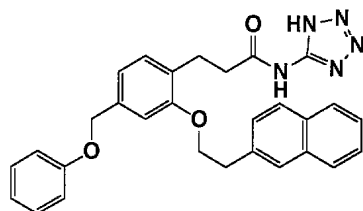
TLC: Rf 0.40(: =1:1).

10(62)

(2E)-N- -3-(2-(-2-)-4-(-1-))-2-



TLC: Rf 0.75().

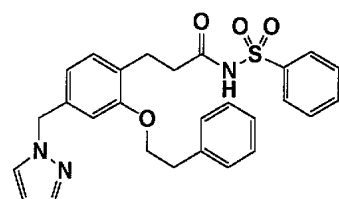


TLC: Rf 0.65(: =9:1);

NMR(300MHz, DMSO- d_6): 7.84-7.68(m, 4H), 7.51-7.20(m, 5H), 7.13-6.87(m, 6H), 5.01(s, 2H), 4.98(m, 1H), 4.27(t, J=6.3Hz, 2H), 3.20(t, J=6.3Hz, 2H), 2.85-3.18(m, 2H), 2.61-2.55(m, 2H).

10(67)

N-(-3-(2-(2-)-4-(-1-)))

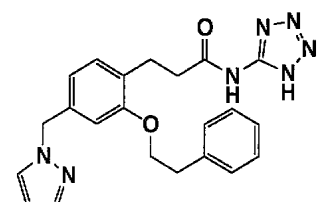


TLC: Rf 0.61(: =9:1);

NMR(300MHz, $CDCl_3$): 7.98(d, J=7.5Hz, 2H), 7.73(s, 1H), 7.66-7.48(m, 4H), 7.37(d, J=1.5Hz, 1H), 7.34-7.20(m, 4H), 6.89(d, J=7.2Hz, 1H), 6.66(s, 1H), 6.62(d, J=7.5Hz, 1H), 6.29(t, J=1.5Hz, 1H), 5.24(s, 2H), 4.17(t, J=6.3Hz, 2H), 3.07(t, J=6.3Hz, 2H), 2.71(t, J=7.5Hz, 2H), 2.14(t, J=7.5Hz, 2H).

10(68)

N-((-5-)-3-(2-(2-)-4-(-1-)))

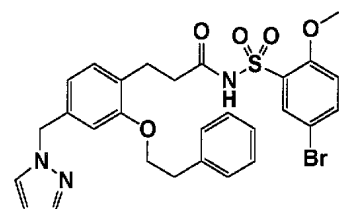


TLC: Rf 0.40(: =4:1);

NMR(300MHz, DMSO- d_6): 7.77(d, J=2.1Hz, 1H), 7.43(d, J=1.5Hz, 1H), 7.34-7.23(m, 5H), 7.18(d, J=6.3Hz, 1H), 7.07(d, J=7.8Hz, 1H), 6.85(s, 1H), 6.65(d, J=7.8Hz, 1H), 6.23(t, J=1.8Hz, 1H), 5.24(s, 2H), 4.09(t, J=6.3Hz, 2H), 3.00(t, J=6.3Hz, 2H), 2.75(t, J=7.5Hz, 2H), 2.51(t, J=7.5Hz, 2H).

10(69)

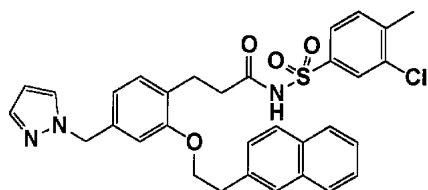
N-(5- -2-)-3-(2-(2-)-4-(-1-))



TLC: Rf 0.55(: =10:1).

10(74)

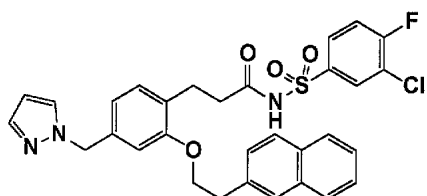
N-(3- -4-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.59(: =10:1).

10(75)

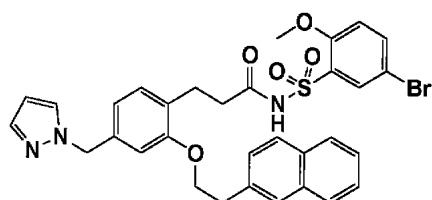
N-(3- -4-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.58(: =10:1).

10(76)

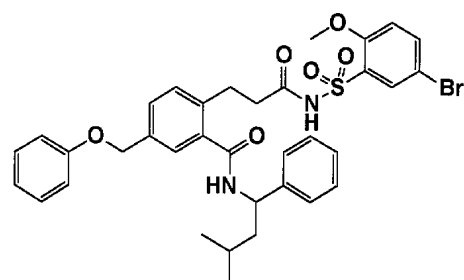
N-(5- -2-)-3-(2-(2-(-2-))-4-(-1-))



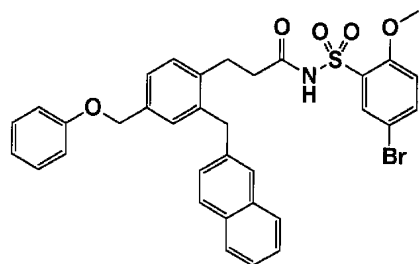
TLC: Rf 0.58(: =10:1).

10(77)

N-(5- -2-)-3-(2-((3- -1-))-4-)



TLC: Rf 0.61(: =10:1).

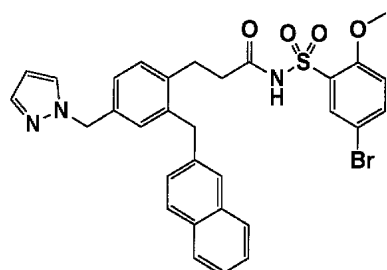


TLC: Rf 0.60(: =1:2);

NMR(300MHz, DMSO-d₆): 12.22(s, 1H), 7.86-7.73(m, 5H), 7.52(s, 1H), 7.49-7.41(m, 2H), 7.28-7.06(m, 7H), 6.96-6.89(m, 3H), 5.00(s, 2H), 4.10(s, 2H), 3.76(s, 3H), 2.74(t, J=7.8Hz, 2H), 2.45-2.43(m, 2H).

_____ 10(82)

N-(5- -2-)-3-(2-(-2-)-4-(-1-))

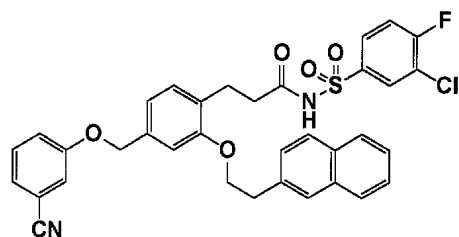


TLC: Rf 0.30(: =1:2);

NMR(300MHz, DMSO-d₆): 12.21(brs, 1H), 7.86-7.73(m, 6H), 7.51-7.43(m, 4H), 7.22(dd, J=8.7, 1.8Hz, 1H), 7.10-7.00(m, 3H), 6.91(dd, 8.1, 1.8Hz, 1H), 6.23(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.05(s, 2H), 3.68(s, 3H), 2.73-2.68(m, 2H), 2.41(t, J=7.2Hz, 2H).

_____ 10(83)

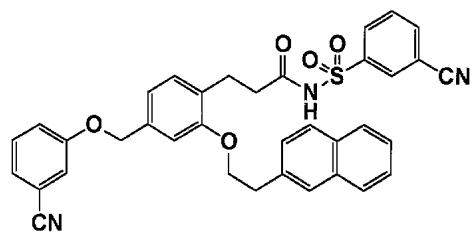
N-(3- -4-)-3-(2-(2-(-2-))-4-(3-))



TLC: Rf 0.65(: =10:1).

_____ 10(84)

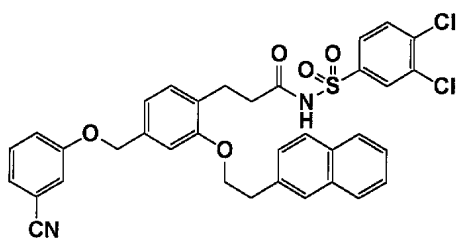
N-(3-)-3-(2-(2-(-2-))-4-(3-))



TLC: Rf 0.63(: =10:1).

10(85)

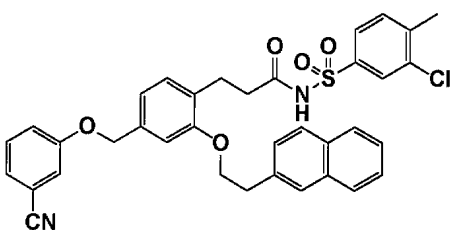
N-(3,4-)-3-(2-(2-(-2-))-4-(3-))



TLC: Rf 0.62(: =10:1).

10(86)

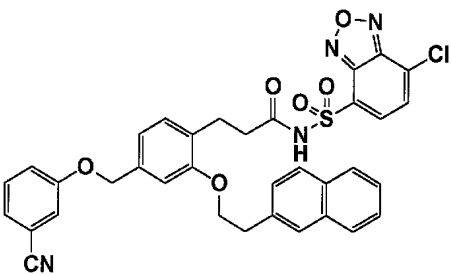
N-(3- -4-)-3-(2-(2-(-2-))-4-(3-))



TLC: Rf 0.64(: =10:1).

10(87)

N-(7- -4-)-3-(2-(2-(-2-))-4-(3-))



TLC: Rf 0.66(: =10:1).

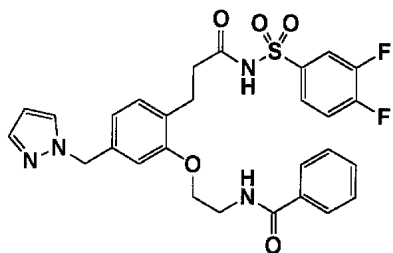
10(88)

N-(3,4-)-3-(2-(2-(-2-))-4-(3-))

.15(t, J=4.8Hz, 2H), 2.71(t, J=8.1Hz, 2H), 1.81(t, J=8.1Hz, 2H).

10(92)

N-(3,4-)-3-(2-(2-())-4-(-1-))

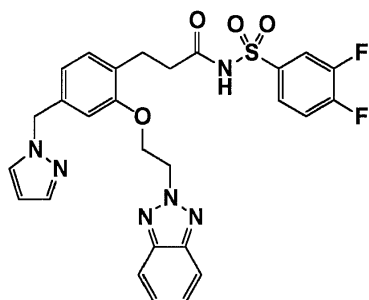


TLC: Rf 0.50();

NMR(300MHz, CDCl₃): 7.85-7.80(m, 4H), 7.56-7.39(m, 5H), 6.99(d, J=7.5Hz, 1H), 6.70-6.61(m, 3H), 6.28(t, J=2.1Hz, 1H), 5.25(s, 2H), 4.05-3.96(m, 4H), 2.75-2.69(m, 2H), 2.43-2.37(m, 2H).

10(93)

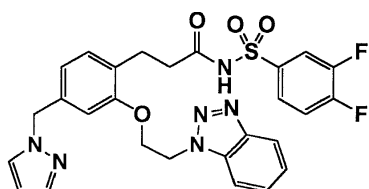
N-(3,4-)-3-(2-(2-(2 H- -2-))-4-(-1-))



TLC: Rf 0.60(: =20:1).

10(94)

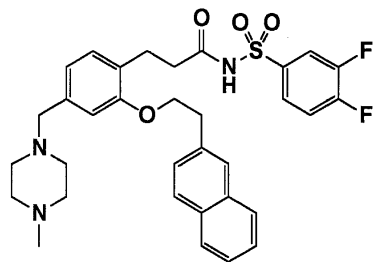
N-(3,4-)-3-(2-(2-(1H- -1-))-4-(-1-))



TLC: Rf 0.44(: =20:1).

10(95)

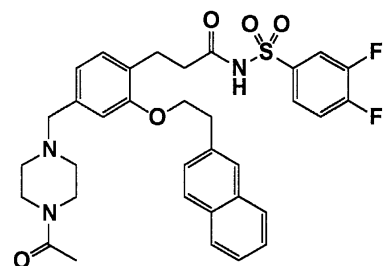
N-(3,4-)-3-(2-(2-(2- -1-))-4-(-1-))



TLC: Rf 0.47(: =3:1).

10(99)

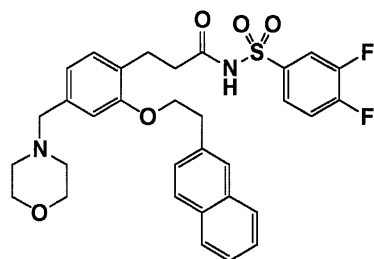
N-(3,4-)-3-(2-(2-(-2-))-4-(4- -1-))



TLC: Rf 0.33(: =10:1).

10(100)

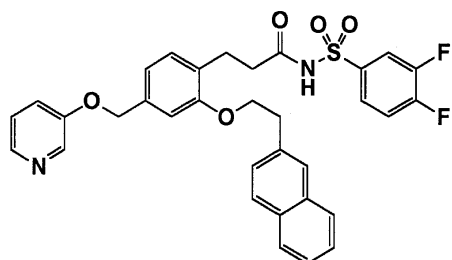
N-(3,4-)-3-(2-(2-(-2-))-4-(-4-))



TLC: Rf 0.57(: =10:1).

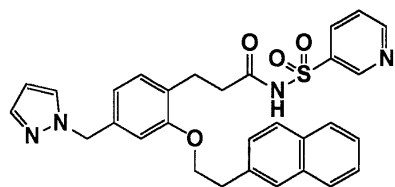
10(101)

N-(3,4-)-3-(2-(2-(-2-))-4-(-3-))



TLC: Rf 0.50().

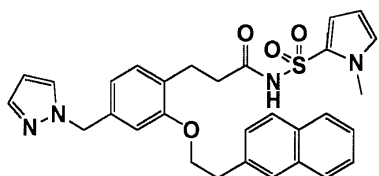
10(102)



TLC: Rf 0.49(: =10:1).

10(106)

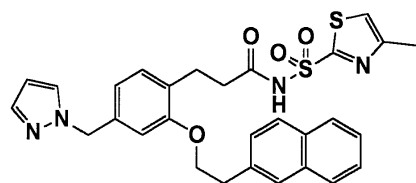
N-(1- -2-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.70(: =10:1).

10(107)

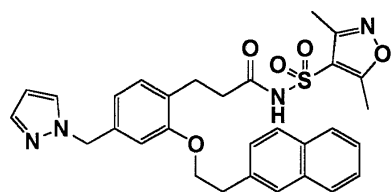
N-(4- -2-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.52(: =10:1).

10(108)

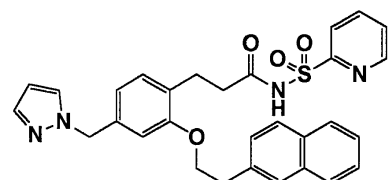
N-(3,5- -4-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.71(: =10:1)

10(109)

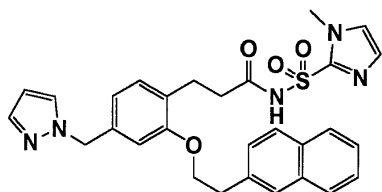
N-(-2-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.51(: =10:1).

10(110)

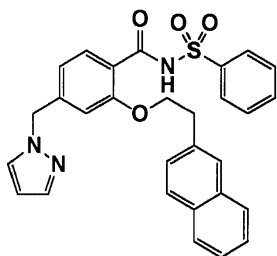
N-(1- -2-)-3-(2-(2-(-2-))-4-(-1-))



TLC: Rf 0.48(: =10:1).

10(111)

N- -2-(2-(-2-))-4-(-1-)

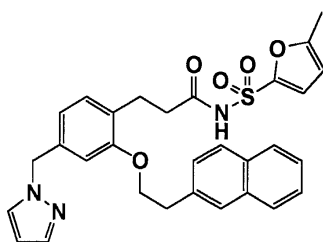


TLC: Rf 0.66(: =19:1);

NMR(300MHz, CDCl₃): 10.35(bs, 1H), 7.99(d, J=8.4Hz, 1H), 7.93-7.78(m, 6H), 7.61-7.28(m, 8H), 6.84(d, J=8.1Hz, 1H), 6.78(s, 1H), 6.31(t, J=2.1Hz, 1H), 5.31(s, 2H), 4.47(t, J=6.3Hz, 2H), 3.42(t, J=6.3Hz, 2H).

10(112)

N-(5- -2-)-3-(2-(2-(-2-))-4-(-1-))

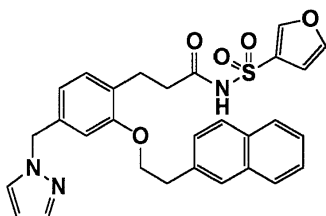


TLC: Rf 0.40(: =1:1);

NMR(300MHz, CDCl₃): 7.88-7.77(m, 4H), 7.68(brs, 1H), 7.54(d, J=1.5Hz, 1H), 7.53-7.45(m, 2H), 7.42-7.36(m, 2H), 7.16(d, J=3.6Hz, 1H), 6.97(d, J=8.1Hz, 1H), 6.67-6.65(m, 2H), 6.27(t, J=2.1Hz, 1H), 6.11(d, J=3.3 Hz, 1H), 5.24(s, 2H), 4.24(t, J=6.3Hz, 2H), 3.23(t, J=6.3Hz, 2H), 2.74(t, J=7.5Hz, 2H), 2.34(s, 3H), 2.17(t, J=7.5Hz, 2H).

10(113)

N-(-3-)-3-(2-(2-(-2-))-4-(-1-))

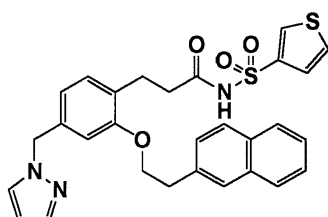


TLC: Rf 0.30(: =1:1);

NMR(300MHz, CDCl₃): 8.01(m, 1H), 7.87-7.77(m, 4H), 7.69(brs, 1H), 7.54(m, 1H), 7.53-7.44(m, 2H), 7.41-7.37(m, 3H), 6.92(d, J=7.5Hz, 1H), 6.67(d, J=1.5Hz, 1H), 6.65-6.61(m, 2H), 6.28(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.25(t, J=6.3Hz, 2H), 3.23(t, J=6.3Hz, 2H), 2.73(t, J=7.5Hz, 2H), 2.09(t, J=7.5Hz, 2H).

10(114)

N-(-3-)-3-(2-(2-(-2-)))-4-(-1-))

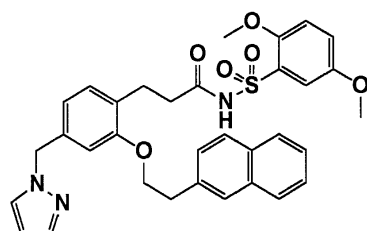


TLC: Rf 0.35(: =1:1);

NMR(300MHz, CDCl₃): 8.10(dd, J=3.0, 1.5Hz, 1H), 7.87-7.77(m, 4H), 7.68(brs, 1H), 7.54(m, 1H), 7.52-7.45(m, 2H), 7.41-7.30(m, 4H), 6.89(d, J=7.8Hz, 1H), 6.67(brs, 1H), 6.62(d, J=7.8Hz, 1H), 6.28(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.24(t, J=6.3Hz, 2H), 3.23(t, J=6.3Hz, 2H), 2.71(t, J=7.5Hz, 2H), 2.09(t, J=7.5Hz, 2H).

10(115)

N-(2,5-)-3-(2-(2-(-2-)))-4-(-1-))

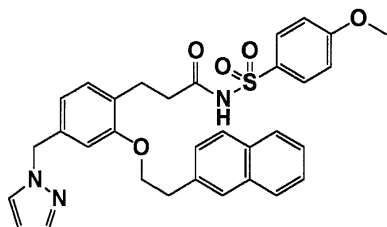


TLC: Rf 0.26(: =1:1);

NMR(300MHz, CDCl₃): 8.16(brs, 1H), 7.86-7.76(m, 3H), 7.67(brs, 1H), 7.54-7.52(m, 2H), 7.51-7.43(m, 2H), 7.39-7.35(m, 2H), 7.05(dd, J=9.3, 3.0Hz, 1H), 6.94(d, J=7.2Hz, 1H), 6.80(d, J=9.1Hz, 1H), 6.65-6.62(m, 2H), 6.27(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.18(t, J=6.6Hz, 2H), 3.78(s, 3H), 3.67(s, 3H), 3.19(t, J=6.6Hz, 2H), 2.74(t, J=7.5Hz, 2H), 2.33(t, J=7.5Hz, 2H).

10(116)

N-(4-)-3-(2-(2-(-2-)))-4-(-1-))

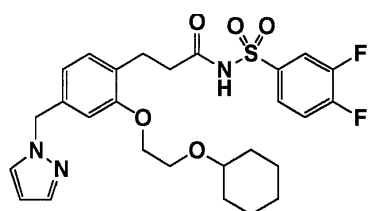


TLC: Rf 0.34(: =1:1);

NMR(300MHz, CDCl₃): 7.87-7.76(m, 6H), 7.67(brs, 1H), 7.53(m, 1H), 7.52-7.45(m, 2H), 7.40-7.37(m, 2H), 6.95-6.88(m, 3H), 6.66(brs, 1H), 6.62(d, J=7.2Hz, 1H), 6.28(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.23(t, J=6.3Hz, 2H), 3.84(s, 3H), 3.21(t, J=6.3Hz, 2H), 2.70(t, J=7.5Hz, 2H), 2.07(t, J=7.5Hz, 2H).

10(117)

N-(3,4-)-3-(2-(2-)-4-(-1-))

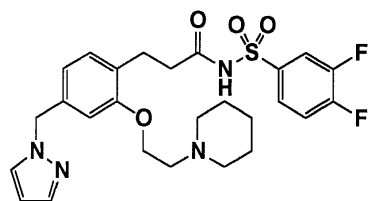


TLC: Rf 0.63(: =9:1);

NMR(300MHz, CDCl₃): 7.64-7.56(m, 2H), 7.54(d, J=1.2Hz, 1H), 7.40(d, J=1.8Hz, 1H), 7.20(m, 1H), 6.88(d, J=7.8Hz, 1H), 6.62(d, J=7.8Hz, 1H), 6.57(s, 1H), 6.28(dd, J=1.8, 1.2Hz, 1H), 5.25(s, 2H), 4.10(m, 2H), 3.91(m, 2H), 3.45(m, 1H), 2.86(t, J=6.9Hz, 2H), 2.71(t, J=6.9Hz, 2H), 2.05(m, 2H), 1.80(m, 2H), 1.42-1.15(m, 6H).

10(118)

N-(3,4-)-3-(2-(2-(-1-))-4-(-1-))

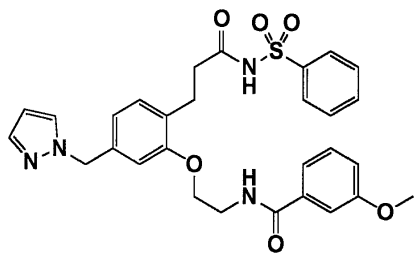


TLC: Rf 0.38(: =9:1);

NMR(300MHz, CDCl₃): 7.63-7.56(m, 2H), 7.53(d, J=2.1Hz, 1H), 7.40(d, J=2.1Hz, 1H), 7.15(m, 1H), 7.10(d, J=7.8Hz, 1H), 6.80(d, J=7.8Hz, 1H), 6.62(s, 1H), 6.28(dd, J=2.1, 2.1Hz, 1H), 5.27(s, 2H), 4.18(t, J=5.1Hz, 2H), 3.50(t, J=5.1Hz, 2H), 3.24(brs, 4H), 2.91(m, 2H), 2.46(m, 2H), 2.15-2.00(m, 4H), 1.65(m, 2H).

10(119)

N- -3-(2-(2-(3-))-4-(-1-))

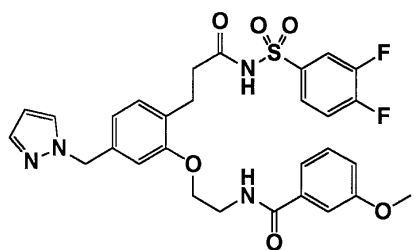


TLC: Rf 0.50();

NMR(300MHz, CDCl₃): 11.00(s, 1H), 8.01-7.98(m, 2H), 7.61-7.32(m, 8H), 7.09-7.05(m, 1H), 6.97(d, J=7.5Hz, 1H), 6.76-6.59(m, 3H), 6.28(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.03-4.00(m, 2H), 3.95-3.90(m, 2H), 3.87(s, 3H), 2.75-2.70(m, 2H), 2.42-2.36(m, 2H).

10(120)

N-(3,4-)-3-(2-(2-(3-))-4-(-1-))

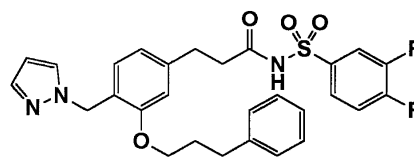


TLC: Rf 0.50();

NMR(300MHz, CDCl₃): 11.45(s, 1H), 7.86-7.81(m, 2H), 7.55-7.22(m, 6H), 7.11-7.07(m, 1H), 6.99(d, J=7.5Hz, 1H), 6.70-6.58(m, 3H), 6.28(t, J=2.1Hz, 1H), 5.25(s, 2H), 4.06-3.94(m, 4H), 3.88(s, 3H), 2.74-2.69(m, 2H), 2.42-2.36(m, 2H).

10(121)

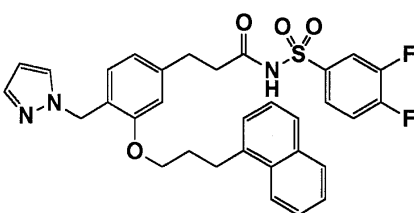
N-(3,4-)-3-(3-(3-)-4-(-1-))



TLC: Rf 0.50(: =10:1).

10(122)

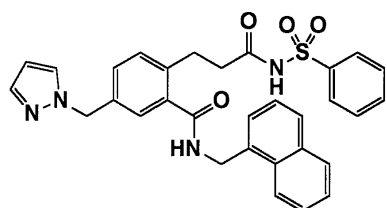
N-(3,4-)-3-(3-(3-(-1-))-4-(-1-))



TLC: Rf 0.53(: =10:1).

10(123)

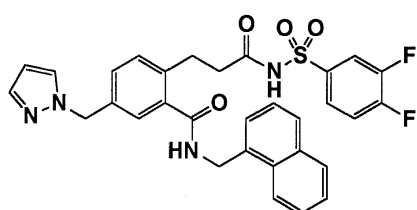
N-(3,4-)-3-(2-((-1-))-4-(-1-))



TLC: Rf 0.51(: =10:1).

10(124)

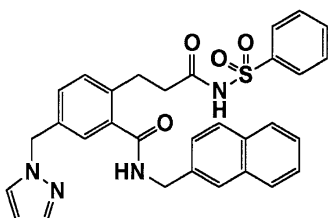
N-(3,4-)-3-(2-((-1-))-4-(-1-))



TLC: Rf 0.51(: =10:1).

10(125)

N-(3,4-)-3-(2-((-2-))-4-(-1-))

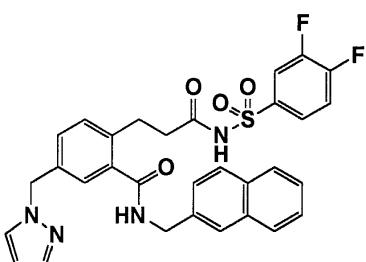


TLC: Rf 0.30(: =10:1);

NMR(300MHz, DMSO-d₆): 8.96(t, J=5.7Hz, 1H), 7.94-7.41(m, 14H), 7.21(s, 1H), 7.11(s, 2H), 6.29(t, J=1.8Hz, 1H), 5.32(s, 2H), 4.57(d, J=5.7Hz, 2H), 2.81(t, J=7.4Hz, 2H), 2.54(t, J=7.4Hz, 2H).

10(126)

N-(3,4-)-3-(2-((-2-))-4-(-1-))

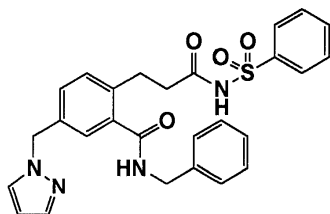


TLC: Rf 0.28(: =10:1);

NMR(300MHz, DMSO-d₆): 8.98(t, J=5.7Hz, 1H), 8.00-7.64(m, 8H), 7.57-7.42(m, 4H), 7.28(s, 1H), 7.20-7.10(m, 2H), 6.28(t, J=2.1Hz, 1H), 5.33(s, 2H), 4.57(d, J=5.7Hz, 1H), 2.83(t, J=7.1Hz, 2H), 2.57(t, J=7.1Hz, 2H).

10(127)

N-(3-(2-()-4-(-1-))

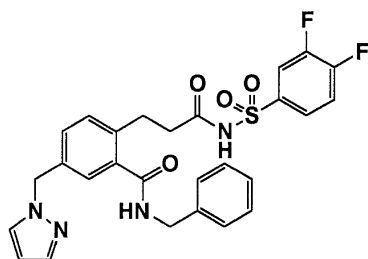


TLC: Rf 0.67(: =9:1);

NMR(300MHz, DMSO-d₆): 12.10(brs, 1H), 8.84(t, J=6.0Hz, 1H), 7.90-7.88(m, 2H), 7.81(m, 1H), 7.71(m, 1H), 7.63-7.57(m, 2H), 7.45(brs, 1H), 7.27-7.21(m, 6H), 7.08(brs, 2H), 6.27(t, J=2.1Hz, 1H), 5.29(s, 2H), 4.37(d, J=6.0Hz, 2H), 2.77-2.72(m, 2H), 2.50-2.45(m, 2H).

10(128)

N-(3,4-()-3-(2-()-4-(-1-))

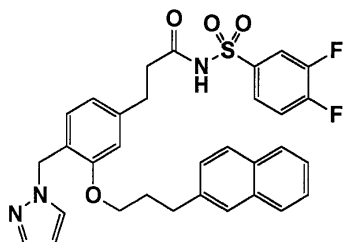


TLC: Rf 0.64(: =9:1);

NMR(300MHz, DMSO-d₆): 12.30(brs, 1H), 8.86(t, J=6.3Hz, 1H), 7.93(m, 1H), 7.82-7.66(m, 3H), 7.45(brs, 1H), 7.31-7.20(m, 6H), 7.15-7.08(m, 2H), 6.26(m, 1H), 5.29(s, 2H), 4.38(d, J=6.0Hz, 2H), 2.79-2.74(m, 2H), 2.54-2.49(m, 2H).

10(129)

N-(3,4-()-3-(3-(3-(-2-))-4-(-1-))

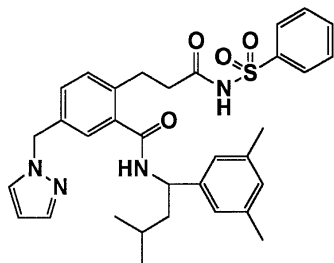


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 9.22(brs, 1H), 7.90-7.70(m, 5H), 7.60(s, 1H), 7.51(d, J=1.5Hz, 1H), 7.50-7.40(m, 3H), 7.40-7.20(m, 2H), 6.82(d, J=7.8Hz, 1H), 6.48(s, 1H), 6.47(d, J=7.8Hz, 1H), 6.26(t, J=1.8Hz, 1H), 5.29(s, 2H), 3.90(t, J=7.5Hz, 2H), 2.91(t, J=7.5Hz, 2H), 2.76(t, J=7.5Hz, 2H), 2.37(t, J=7.5Hz, 2H), 2.30-2.10(m, 2H).

10(130)

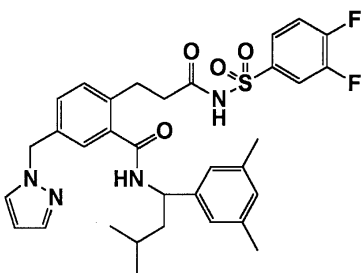
N-(3,4-dimethylphenyl)-3-(2-((3-(1-(3,5-dimethylphenyl)-4-(1-methyl-2-pyrrolidinyl)phenyl)propanoate)ethyl)propanoate



TLC: Rf 0.65(: =10:1).

10(131)

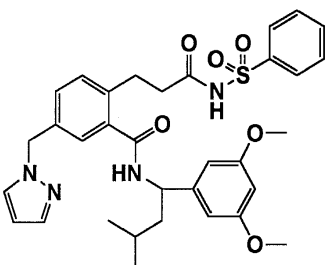
N-(3,4-dimethylphenyl)-3-(2-((3-(1-(3,5-dimethylphenyl)-4-(1-methyl-2-pyrrolidinyl)phenyl)propanoate)ethyl)propanoate



TLC: Rf 0.62(: =10:1).

10(132)

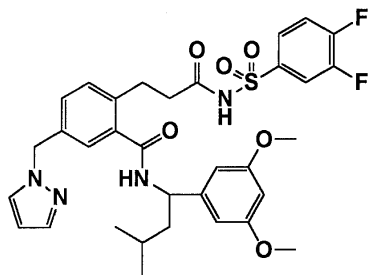
N-(3,4-dimethylphenyl)-3-(2-((3-(1-(3,5-dimethylphenyl)-4-(1-methyl-2-pyrrolidinyl)phenyl)propanoate)ethyl)propanoate



TLC: Rf 0.64(: =10:1).

10(133)

N-(3,4-dimethylphenyl)-3-(2-((3-(1-(3,5-dimethylphenyl)-4-(1-methyl-2-pyrrolidinyl)phenyl)propanoate)ethyl)propanoate

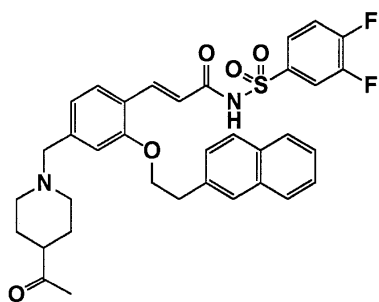


TLC: Rf 0.62(: =10:1).

10(134)

(2E)-N-(3,4-)-3-(2-(2-(-2-))-4-(4- -1-))-

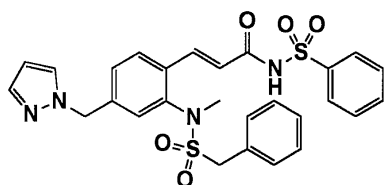
2-



TLC: Rf 0.58(: =10:1).

10(135)

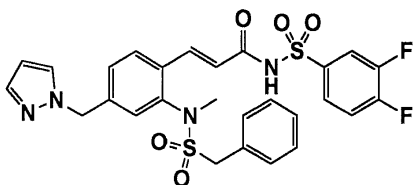
(2E)-N- -3-(2-(N- -N-)-4-(-1-))-2-



TLC: Rf 0.45(: =10:1).

10(136)

(2E)-N-(3,4-)-3-(2-(N- -N-)-4-(-1-))-2-



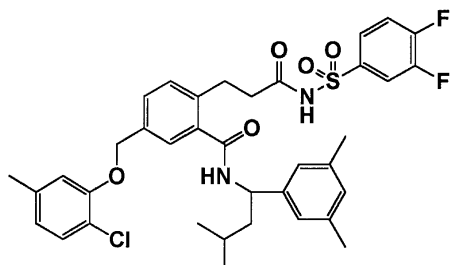
TLC: Rf 0.49(: =10:1).

10(137)

NMR(300MHz, CDCl₃): 7.62(s, 1H), 7.44(m, 1H), 7.34-7.22(m, 2H), 6.98(s, 2H), 6.88(s, 1H), 6.79(s, 1H), 6.76(d, J=8.1Hz, 1H), 6.34(d, J=8.4Hz, 1H), 5.24(m, 1H), 5.09(s, 2H), 3.24-2.98(m, 2H), 2.94-2.72(m, 2H), 2.32(s, 3H), 2.28(s, 6H), 1.90-1.50(m, 3H), 1.06-0.97(m, 6H).

10(141)

N-(3,4-)-3-(2-((3- -1-(3,5-)))-4-(2- -5-

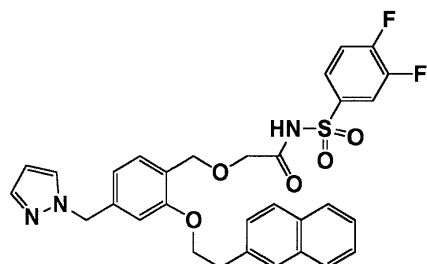


TLC: Rf 0.57(: =10:1);

NMR(300MHz, CDCl₃): 7.70-7.55(m, 3H), 7.35(d, J=8.1Hz, 1H), 7.31-7.24(m, 1H), 7.21-7.10(m, 2H), 6.99(s, 2H), 7.00-6.92(m, 1H), 6.82(s, 1H), 6.77(d, J=8.1Hz, 1H), 6.28(d, J=8.4Hz, 1H), 5.21(m, 1H), 5.09(s, 2H), 3.02-2.81(m, 2H), 2.67-2.52(m, 2H), 2.34(s, 9H), 1.90-1.45(m, 3H), 1.02(d, J=6.0Hz, 6H).

10(142)

N-(3,4-)-2-(2-(2-(-2-))-4-(-1-))

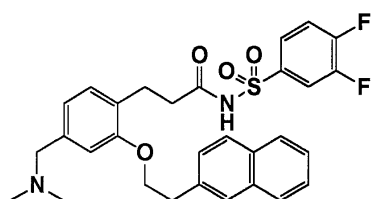


TLC: Rf 0.34(: =10:1);

NMR(300MHz, CDCl₃): 7.86-7.66(m, 6H), 7.57(d, J=1.8Hz, 1H), 7.49-7.38(m, 4H), 7.30-7.13(m, 2H), 6.82-6.75(m, 2H), 6.30(t, J=2.1Hz, 1H), 5.31(s, 2H), 4.44(s, 2H), 4.36(t, J=6.6Hz, 2H), 3.85(s, 2H), 3.27(t, J=6.6Hz, 2H).

10(143)

N-(3,4-)-3-(2-(2-(-2-))-4-

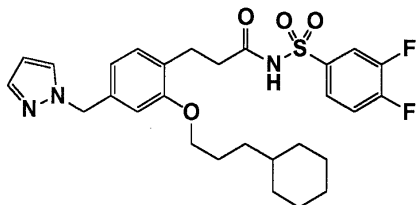


TLC: Rf 0.52(: =9:1);

NMR(300MHz, DMSO-d₆): 8.31(s, 1H), 7.86-7.73(m, 5H), 7.62(m, 1H), 7.51-7.42(m, 4H), 7.04(d, J=8.1 Hz, 1H), 6.99(brs, 1H), 6.80(d, J=8.1Hz, 1H), 4.22-4.18(m, 2H), 3.97(brs, 2H), 3.23-3.19(m, 2H), 2.69-2.64(m, 2H), 2.55(s, 6H), 2.26-2.20(m, 2H).

10(144)

N-(3,4-)-3-(2-(3-)-4-(-1-))

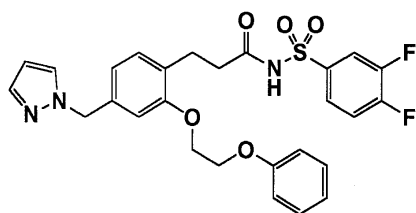


TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 8.86(brs, 1H), 7.83-7.72(m, 2H), 7.54(d, J=2.1Hz, 1H), 7.42(d, J=2.1Hz, 1H), 7.32-7.23(m, 1H), 6.88(d, J=7.8Hz, 1H), 6.66(s, 1H), 6.61(d, J=7.8Hz, 1H), 6.30(t, J=2.1Hz, 1H), 5.27(s, 2H), 3.88(t, J=6.6Hz, 2H), 2.82(t, J=7.2Hz, 2H), 2.50(t, J=7.2Hz, 2H), 1.78-1.69(m, 7H), 1.30-1.19(m, 6H), 0.94-0.84(m, 2H).

10(145)

N-(3,4-)-3-(2-(2-)-4-(-1-))

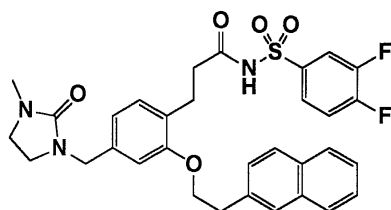


TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 8.95(brs, 1H), 7.64-7.54(m, 3H), 7.42(d, J=2.1Hz, 1H), 7.36-7.30(m, 2H), 7.24-7.15(m, 1H), 7.06-6.93(m, 4H), 6.70-6.66(m, 2H), 6.29(t, J=2.1Hz, 1H), 5.28(s, 2H), 4.38-4.35(m, 2H), 4.30-4.28(m, 2H), 2.84(t, J=7.2Hz, 2H), 2.52(t, J=7.2Hz, 2H).

10(146)

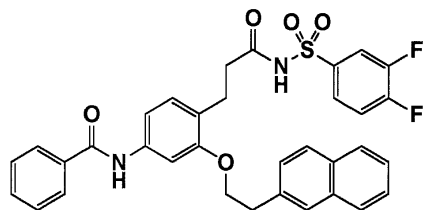
N-(3,4-)-3-(2-(2-(-2-))-4-(3- -2- -1-))



TLC: Rf 0.42(: : =2:6:1).

10(147)

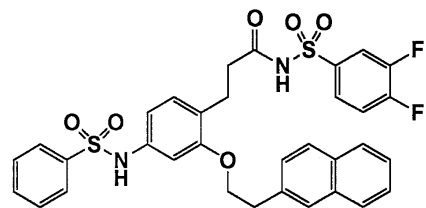
N-(3,4-)-3-(2-(2-(-2-))-4-)



TLC: Rf 0.50(: =19:1).

10(148)

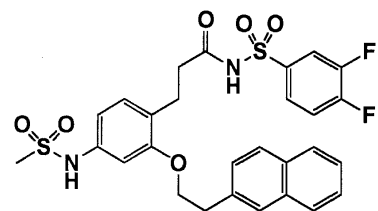
N-(3,4-)-3-(2-(2-(-2-))-4-



TLC: Rf 0.38(: =9:1).

10(149)

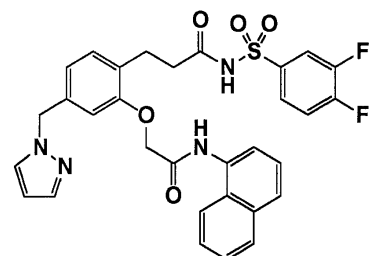
N-(3,4-)-3-(2-(2-(-2-))-4-



TLC: Rf 0.29(: =9:1).

10(150)

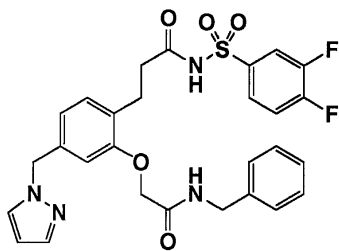
N-(3,4-)-3-(2-(-1-)-4-(-1-))



TLC: Rf 0.44(: : =2:6:1).

10(151)

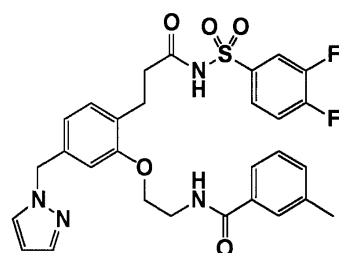
N-(3,4-)-3-(2-()-4-(-1-))



TLC: Rf 0.37(: : =2:6:1).

10(152)

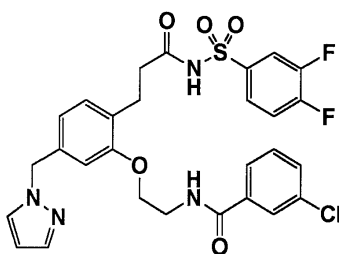
N-(3,4-)-3-(2-(2-(3-))-4-(-1-))



TLC: Rf 0.40(: : =2:6:1).

10(153)

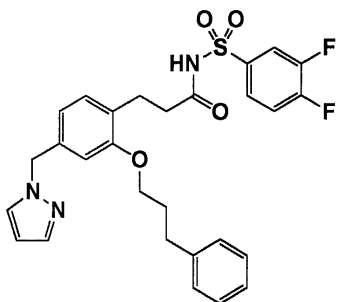
N-(3,4-)-3-(2-(2-(3-))-4-(-1-))



TLC: Rf 0.44(: : =2:6:1).

10(154)

N-(3,4-)-3-(2-(2-(3-))-4-(-1-))



TLC: Rf 0.77(: =10:1).

10(155)

N-(3,4-

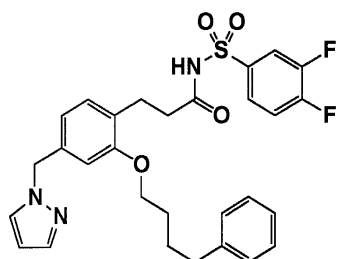
)-3-(2-(4-

)-4-(

-1-

)

)



TLC: Rf 0.76(: =10:1).

10(156)

(2E)-N-(3,4-

)-3-(2-(2-(

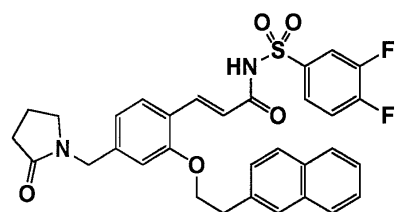
-2-

)-4-(2-

-1-

)

)-2-



TLC: Rf 0.70(: =10:1).

10(157)

N-(3,4-

)-3-(2-(2-(3-(

-1-

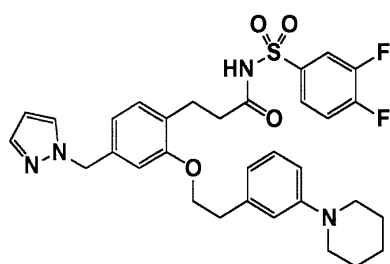
)

)-4-(

-1-

)

)



[]

TLC: Rf 0.45(: =1:1);

NMR(300MHz, CDCl₃): 7.74-7.68(m, 2H), 7.55(s, 1H), 7.40(d, J=2.1Hz, 1H), 7.27-7.19(m, 2H), 6.95-6.93(m, 2H), 6.85(s, 1H), 6.77(d, J=7.5Hz, 1H), 6.66-6.61(m, 2H), 6.29(t, J=2.1Hz, 1H), 5.26(s, 2H), 4.21(t, J=6.0Hz, 2H), 3.25-3.22(m, 4H), 3.03(t, J=6.0Hz, 2H), 2.66(t, J=7.5Hz, 2H), 2.15(t, J=7.5Hz, 2H), 1.76-1.70(m, 4H), 1.64-1.58(m, 2H).

[]

TLC: Rf 0.50(n- : =1:2).

10(158)

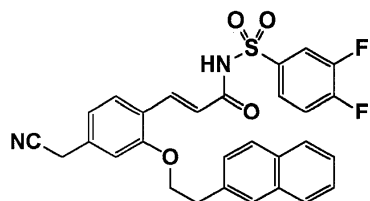
(2E)-N-(3,4-

)-3-(2-(2-(

-2-

)-4-

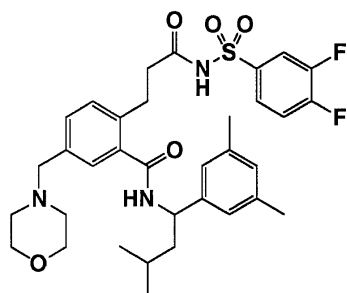
)-2-



TLC: Rf 0.71(: =10:1).

10(159)

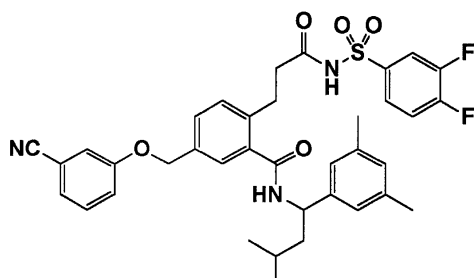
N-(3,4-)-3-(2-((3- -1-(3,5-)))-4-(-4-)



TLC: Rf 0.48(: =10:1).

10(160)

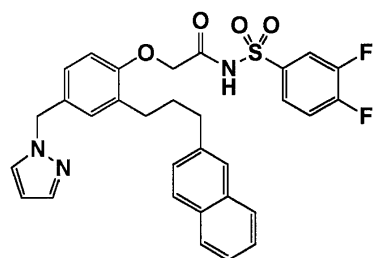
N-(3,4-)-3-(2-((3- -1-(3,5-)))-4-(3-)



TLC: Rf 0.29(: =1:1).

10(161)

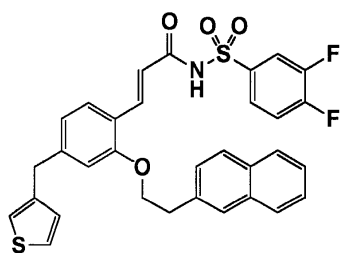
N-(3,4-)-2-(2-(3-(-2-))-4-(-1-))



TLC: Rf 0.34().

10(162)

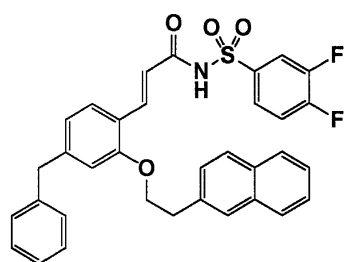
(2E)-N-(3,4-)-3-(2-(2-(-2-))-4-(-3-))-2-



TLC: Rf 0.65(: =1:1).

10(163)

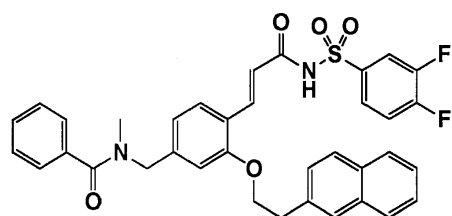
(2E)-N-(3,4-)-3-(2-(2-(-2-))-4-)-2-



TLC: Rf 0.64(: =1:1).

10(164)

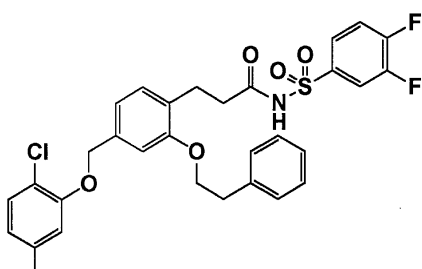
(2E)-N-(3,4-2-)-3-(2-(2-(-2-))-4-(N- -N-))-



TLC: Rf 0.49(: =1:3).

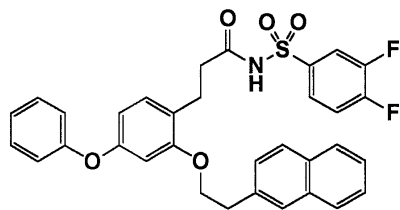
10(165)

N-(3,4-)-3-(2-(2-)-4-(2- -5-))



TLC: Rf 0.74(: =1:1);

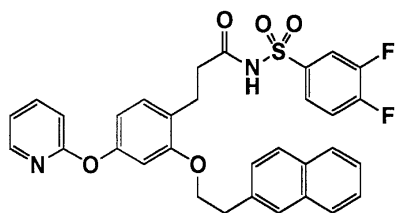
N-(3,4-)-3-(2-(2-(-2-))-4-)



TLC: Rf 0.75(: =1:1).

10(176)

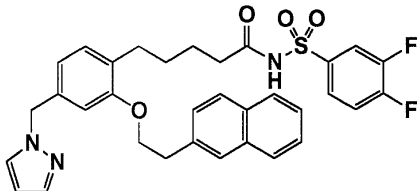
N-(3,4-)-3-(2-(2-(-2-))-4-(-2-))



TLC: Rf 0.50(: =1:1).

10(177)

N-(3,4-)-5-(2-(2-(-2-))-4-(-1-))



[]

TLC: Rf 0.50(: =9:1);

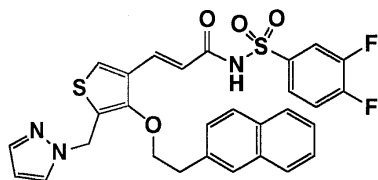
NMR(300MHz, CDCl₃): 7.90-7.74(m, 3H), 7.72-7.63(m, 3H), 7.58-7.38(m, 6H), 6.95(d, J=7.8Hz, 1H), 6.72-6.66(m, 2H), 6.28(dd, J=2.1, 1.8Hz, 1H), 5.29(s, 2H), 4.25(t, J=6.6Hz, 2H), 3.22(t, J=6.6Hz, 2H), 2.40(t, J=7.2Hz, 2H), 1.63(t, J=7.2Hz, 2H), 1.35-1.18(m, 4H).

[]

TLC: Rf 0.64(: =10:1).

10(178)

(2E)-N-(3,4-)-3-(2-(-1-)-3-(2-(-2-))-4-)-2-



[]

TLC: Rf 0.52(: =10:1);

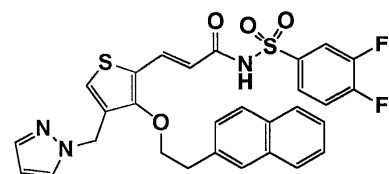
NMR(300MHz, DMSO-d₆): 8.01(m, 1H), 7.95-7.65(m, 7H), 7.54-7.37(m, 6H), 6.62(d, J=15.6Hz, 1H), 6.16(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.22(t, J=6.6Hz, 2H), 3.28(t, J=6.6Hz, 2H).

[]

TLC: Rf 0.57(: =10:1).

10(179)

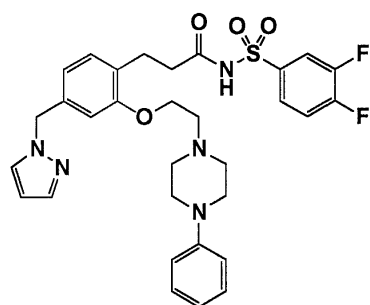
(2E)-N-(3,4-)-3-(4-(-1-)-3-(2-(-2-)) -2-)-2-



TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 7.94-7.66(m, 7H), 7.54-7.23(m, 5H), 7.11(m, 1H), 7.05(s, 1H), 6.17(t, J=2.1Hz, 1H), 5.86(d, J=15.3Hz, 1H), 4.96(s, 2H), 4.16(t, J=6.6Hz, 2H), 3.18(t, J=6.6Hz, 2H).10(180)

N-(3,4-)-3-(2-(2-(4- -1-))-4-(-1-))



[]

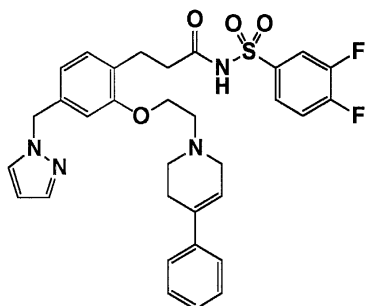
TLC: Rf 0.58(: =5:1).

[]

TLC: Rf 0.40(: =10:1).

10(181)

N-(3,4-))-3-(2-(2-(4- -1,2,3,6- -1-))-4-(-1-



[]

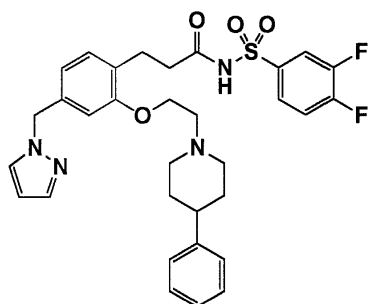
TLC: Rf 0.66(: =5:1).

[]

TLC: Rf 0.37(: =10:1).

10(182)

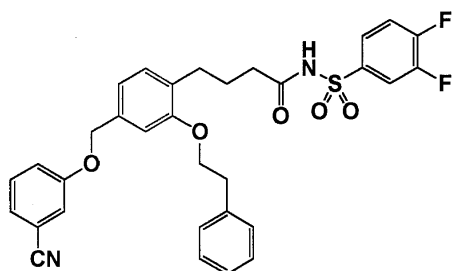
N-(3,4-))-3-(2-(2-(4- -1-))-4-(-1-))



TLC: Rf 0.67(: =5:1).

10(183)

N-(3,4-))-4-(2-(2-)-4-(3-))



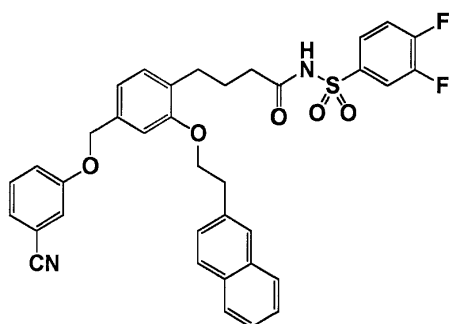
TLC: Rf 0.70(: =10:1);

NMR(300MHz, CDCl₃): 7.96-7.80(m, 2H), 7.42-7.14(m, 10H), 7.03(d, J=7.2Hz, 1H), 6.94-6.85(m, 2H), 5.01(s, 2H), 4.23(t, J=6.5Hz, 2H), 3.10(t, J=6.5Hz, 2H), 2.55(t, J=7.0Hz, 2H), 1.97(t, J=7.0Hz, 2H), 1.80-1.64(m

, 2H).

10(184)

N-(3,4-)-4-(2-(2-(-2-))-4-(3-))



[]

TLC: Rf 0.84(: =10:1);

NMR(300MHz, CDCl₃): 7.92-7.70(m, 4H), 7.55-7.14(m, 10H), 7.01(d, J=7.5Hz, 1H), 6.94-6.84(m, 2H), 5.00(s, 2H), 4.31(t, J=6.3Hz, 2H), 3.26(t, J=6.3Hz, 2H), 2.49(t, J=7.2Hz, 2H), 1.81(t, J=7.2Hz, 2H), 1.74-1.50(m, 2H).

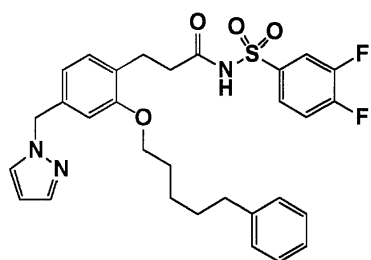
[]

TLC: Rf 0.74(: =10:1);

NMR(300MHz, DMSO-d₆): 7.90-7.78(m, 5H), 7.68(m, 1H), 7.62-7.30(m, 8H), 7.05(s, 1H), 7.02(d, J=7.5 Hz, 1H), 6.91(d, J=7.5Hz, 1H), 5.09(s, 2H), 4.25(m, 2H), 3.20(m, 2H), 2.40(m, 2H), 2.02(m, 2H), 1.59(m, 2H).

10(185)

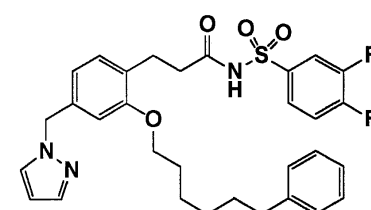
N-(3,4-)-3-(2-(5-)-4-(-1-))



TLC: Rf 0.63(: =10:1).

10(186)

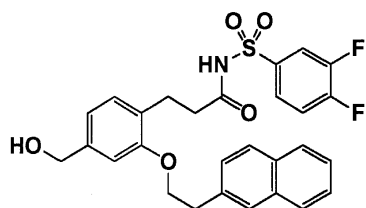
N-(3,4-)-3-(2-(6-)-4-(-1-))



TLC: Rf 0.61(: =10:1).

_____10(187)

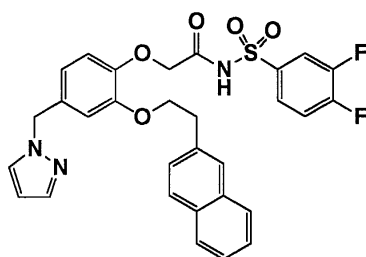
N-(3,4-)-3-(2-(2-(-2-)))-4-)



TLC: Rf 0.52(: =10:1).

_____10(188)

N-(3,4-)-2-(2-(2-(-2-)))-4-(-1-))



[]

TLC: Rf 0.40(: =19:1);

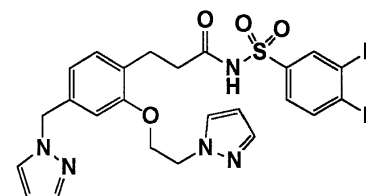
NMR(300MHz, CDCl₃): 7.93-7.71(m, 6H), 7.57-7.36(m, 5H), 7.25(m, 1H), 6.89-6.74(m, 3H), 6.29(t, J=2.3Hz, 1H), 5.24(s, 2H), 4.46(s, 2H), 4.35(t, J=7.2Hz, 2H), 3.35(t, J=7.2Hz, 2H).

[]

TLC: Rf 0.45(: =10:1).

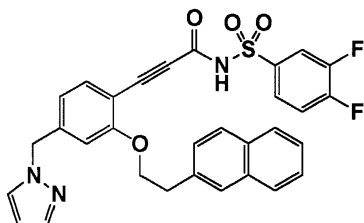
_____10(189)

N-(3,4-)-3-(2-(2-(-1-)))-4-(-1-))



TLC: Rf 0.40(: =9:1);

NMR(300MHz, CDCl₃): 7.90-7.80(m, 2H), 7.56(d, J=2.1Hz, 1H), 7.53(d, J=2.1Hz, 1H), 7.48(d, J=2.1Hz, 1H), 7.38(d, J=2.1Hz, 1H), 7.33-7.24(m, 1H), 6.99(d, J=7.5Hz, 1H), 6.69(d, J=7.5Hz, 1H), 6.56(s, 1H), 6.35(t, J=2.1Hz, 1H), 6.27(t, J=2.1Hz, 1H), 5.24(s, 2H), 4.59(t, J=4.2Hz, 2H), 4.23(t, J=4.2Hz, 2H), 2.83-2.77(m, 2H), 2.43-2.38(m, 2H).



[]

TLC: Rf 0.78(: =18:1:1).

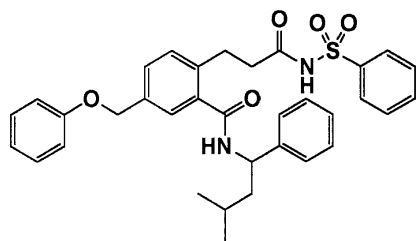
[]

TLC: Rf 0.17(: =10:1);

NMR(300MHz, DMSO-d₆): 7.94-7.76(m, 5H), 7.69(m, 1H), 7.63-7.38(m, 6H), 7.31(d, J=8.1Hz, 1H), 6.91(s, 1H), 6.66(d, J=7.5Hz, 1H), 6.27(t, J=2.1Hz, 1H), 5.31(s, 2H), 4.21(m, 2H), 3.19(m, 2H).

10(197)

N- -3-(2-((3- -1-))-4-

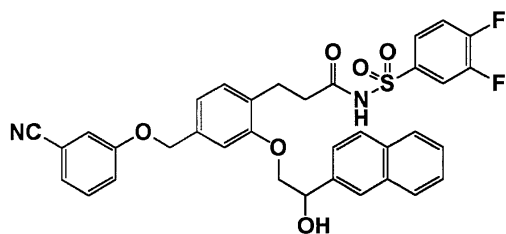


TLC: Rf 0.55(: =10:1);

NMR(300MHz, CDCl₃): 7.88(dd, J=7.8, 1.8Hz, 2H), 7.55(m, 1H), 7.45-7.30(m, 11H), 7.13(d, J=7.8Hz, 1H), 7.03-6.96(m, 3H), 6.26(d, J=8.4Hz, 1H), 5.27(dt, J=8.4, 8.4Hz, 1H), 5.02(s, 2H), 2.96-2.75(m, 2H), 2.50(dt, J=1.8, 8.1Hz, 2H), 1.90-1.55(m, 3H), 1.02(d, J=6.6Hz, 3H), 1.01(d, J=6.6Hz, 3H).

10(198)

N-(3,4-)-3-(2-(2- -2-(-2-))-4-(3-))

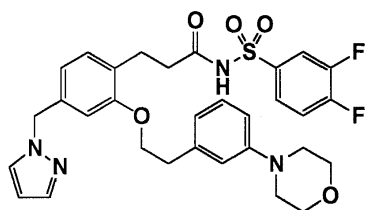


TLC: Rf 0.41(: =1:1, 0.5%);

NMR(300MHz, CDCl₃): 7.98-7.86(m, 4H), 7.82-7.72(m, 2H), 7.60-7.52(m, 3H), 7.36(m, 1H), 7.30-7.14(m, 4H), 7.06(d, J=8.1Hz, 1H), 6.90-6.84(m, 2H), 5.46(dd, J=8.7, 3.0Hz, 1H), 4.98(s, 2H), 4.30(dd, J=9.9, 3.0Hz, 1H), 4.19(dd, J=9.9, 8.7Hz, 1H), 3.05-2.80(m, 2H), 2.70-2.45(m, 2H).

10(199)

N-(3,4-)-3-(2-(2-(3-(-4-)))-4-(-1-))

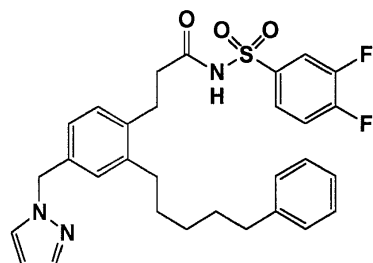


TLC: Rf 0.40(: =9:1);

NMR(300MHz, CDCl₃): 7.75-7.69(m, 2H), 7.55(d, J=2.1Hz, 1H), 7.40(d, J=2.1Hz, 1H), 7.30-7.23(m, 2H), 6.94-6.80(m, 4H), 6.67-6.62(m, 2H), 6.29(t, J=2.1Hz, 1H), 5.26(s, 2H), 4.21(t, J=6.0Hz, 2H), 3.89-3.86(m, 4H), 3.21-3.18(m, 4H), 3.05(t, J=6.0Hz, 2H), 2.69(t, J=7.5Hz, 2H), 2.20(t, J=7.5Hz, 2H).

_____10(200)

N-(3,4-)-3-(2-(5-)-4-(-1-))

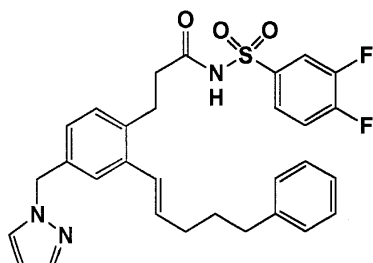


TLC: Rf 0.60(n- : =1:2);

NMR(300MHz, CDCl₃): 9.12(brs, 1H), 7.88-7.78(m, 2H), 7.53(d, J=2.1Hz, 1H), 7.43(d, J=2.1Hz, 1H), 7.33-7.25(m, 3H), 7.20-7.15(m, 3H), 6.96(s, 1H), 6.82(s, 2H), 6.30(t, J=2.1Hz, 1H), 5.26(s, 2H), 2.80(t, J=7.8Hz, 2H), 2.59(t, J=7.8Hz, 2H), 2.43(t, J=7.8Hz, 2H), 2.33(t, J=7.8Hz, 2H), 1.65-1.56(m, 2H), 1.54-1.44(m, 2H), 1.39-1.31(m, 2H).

_____10(201)

N-(3,4-)-3-(2-(5- -1-)-4-(-1-))

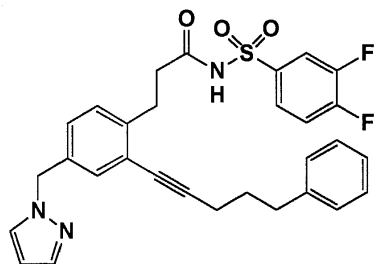


TLC: Rf 0.60(n- : =1:2);

NMR(300MHz, CDCl₃): 8.82(brs, 1H), 7.85-7.75(m, 2H), 7.54(d, J=2.1Hz, 1H), 7.43(d, J=2.1Hz, 1H), 7.32-7.18(m, 7H), 6.85(s, 2H), 6.42(d, J=15.6Hz, 1H), 6.30(t, J=2.1Hz, 1H), 6.05(dt, J=15.6, 6.9Hz, 1H), 5.27(s, 2H), 2.86(t, J=7.8Hz, 2H), 2.65(t, J=7.8Hz, 2H), 2.36(t, J=7.8Hz, 2H), 2.25-2.18(m, 2H), 1.83-1.72(m, 2H).

_____10(202)

N-(3,4-)-3-(2-(5- -1-)-4-(-1-))

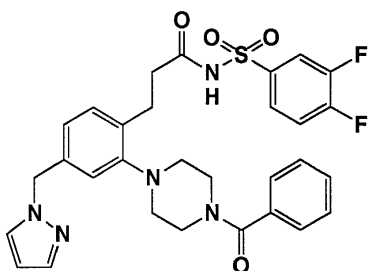


TLC: Rf 0.60(n- : =1:2);

NMR(300MHz, CDCl₃): 8.41(brs, 1H), 7.84-7.71(m, 2H), 7.55(d, J=2.1Hz, 1H), 7.41(d, J=2.1Hz, 1H), 7.33-7.18(m, 7H), 6.96-6.95(m, 2H), 6.30(t, J=2.1Hz, 1H), 5.24(s, 2H), 3.01(t, J=7.2Hz, 2H), 2.74(t, J=7.2Hz, 2H), 2.56(t, J=7.2Hz, 2H), 2.42(t, J=7.2Hz, 2H), 1.95-1.85(m, 2H).

10(203)

N-(3,4-)-3-(2-(N- -1-)-4-(-1-))

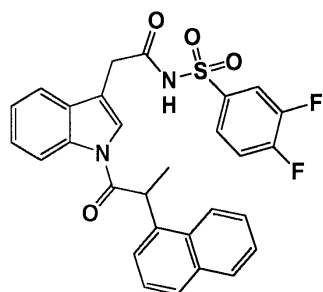


TLC: Rf 0.60();

NMR(300MHz, CDCl₃): 7.69-7.61(m, 2H), 7.54(d, J=2.1Hz, 1H), 7.42(s, 6H), 7.25-7.16(m, 1H), 7.02(d, J=8.1Hz, 1H), 6.91(s, 1H), 6.83(d, J=8.1Hz, 1H), 6.30(t, J=2.1Hz, 1H), 5.27(s, 2H), 3.87(m, 2H), 3.56(m, 2H), 2.92-2.84(m, 6H), 2.59(t, J=7.2Hz, 2H).

10(204)

N-(3,4-)-2-(1-(1-(-1-))) -3-)



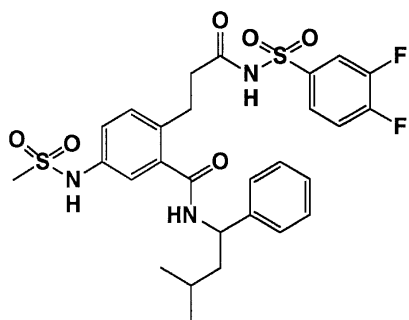
TLC: Rf 0.71(: =9:1);

NMR(300MHz, CDCl₃): 8.62(d, J=8.1Hz, 1H), 8.19(d, J=8.7Hz, 1H), 7.95(d, J=8.1Hz, 1H), 7.80(m, 1H), 7.72-7.58(m, 4H), 7.46-7.35(m, 3H), 7.21(d, J=7.5Hz, 1H), 7.19(d, J=7.2Hz, 1H), 7.11(d, J=7.5Hz, 1H), 7.05(s, 1H), 5.16(q, J=6.6Hz, 1H), 3.40(s, 2H), 1.75(d, J=6.6Hz, 3H).

10(205)

10(208)

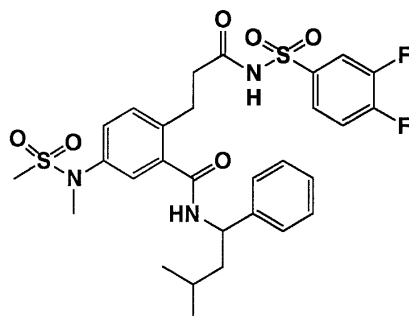
N-(3,4-)-3-(2-((3- -1-))-4-)



TLC: Rf 0.30(n- : =1:2).

10(209)

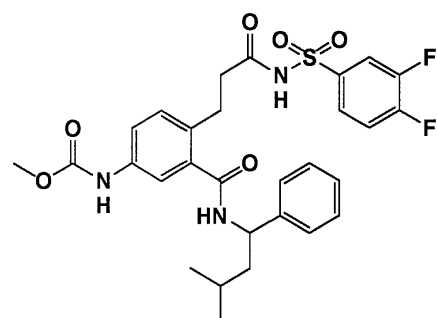
N-(3,4-)-3-(2-((3- -1-))-4-(N- -N-))



TLC: Rf 0.30(n- : =1:2).

10(210)

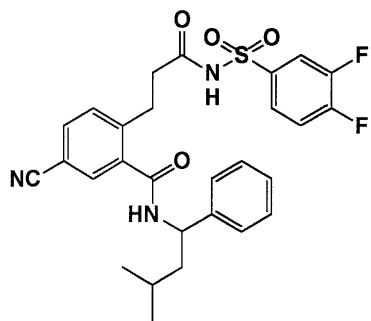
N-(3,4-)-3-(2-((3- -1-))-4-)



TLC: Rf 0.60(n- : =1:2).

10(211)

N-(3,4-)-3-(4- -2-((3- -1-)))

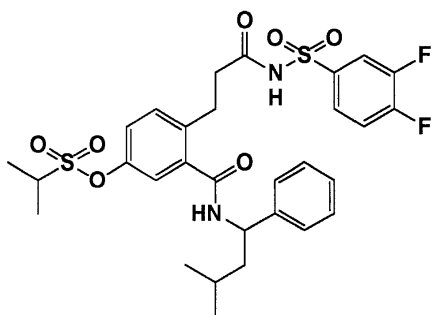


TLC: Rf 0.54(n- : =1:2);

NMR(300MHz, CDCl₃): 7.84-7.70(m, 2H), 7.64(d, J=1.8Hz, 1H), 7.59(dd, J=7.8, 1.8Hz, 1H), 7.46-7.20(m, 7H), 6.34(d, J=7.8Hz, 1H), 5.23(m, 1H), 3.02-2.80(m, 2H), 2.51(t, J=7.4Hz, 2H), 1.92-1.46(m, 3H), 1.03(d, J=5.9Hz, 3H), 1.01(d, J=5.9Hz, 3H).

10(212)

N-(3,4-)-3-(2-((3- -1-))-4-)

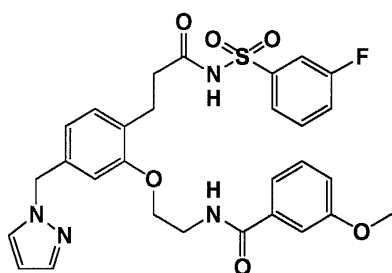


TLC: Rf 0.49(: =10:1);

NMR(300MHz, DMSO-d₆): 12.30(brs, 1H), 8.88(d, J=8.4Hz, 1H), 7.94(m, 1H), 7.80-7.68(m, 2H), 7.33-7.19(m, 7H), 7.08(d, J=2.1Hz, 1H), 4.98(m, 1H), 3.75 (quint, J=6.9Hz, 1H), 2.76-2.71(m, 2H), 2.54-2.49(m, 2H), 1.75-1.38(m, 3H), 1.41(d, J=6.9Hz, 6H), 0.87-0.83(m, 6H).

10(213)

N-(3-)-3-(2-(2-(3-))-4- (-1-))

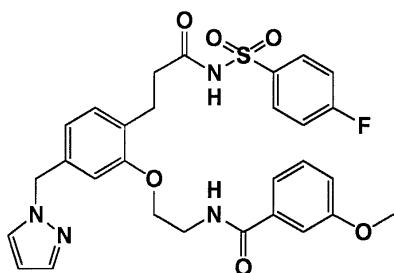


TLC: Rf 0.43(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.4Hz, 1H), 7.77(d, J=2.1Hz, 1H), 7.72-7.53(m, 4H), 7.45-7.30(m, 4H), 7.07(m, 1H), 6.86(d, J=8.1Hz, 1H), 6.85(s, 1H), 6.56(d, J=8.1Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.22(s, 2H), 4.06-3.97(m, 2H), 3.78(s, 3H), 3.65-3.56(m, 2H), 2.66(t, J=7.2Hz, 2H), 2.46(t, J=7.2Hz, 2H).

10(214)

N-(4-)-3-(2-(2-(3-))-4-(-1-))

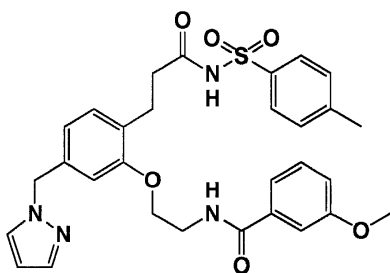


TLC: Rf 0.44(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.4Hz, 1H), 7.96-7.87(m, 2H), 7.77(d, J=2.1Hz, 1H), 7.47-7.30(m, 6H), 7.07(m, 1H), 6.86(d, J=7.8Hz, 1H), 6.84(s, 1H), 6.56(d, J=7.8Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.02(t, J=5.7Hz, 2H), 3.78(s, 3H), 3.65-3.56(m, 2H), 2.65(t, J=7.2Hz, 2H), 2.44(t, J=7.2Hz, 2H).

10(215)

N-(4-)-3-(2-(2-(3-))-4-(-1-))

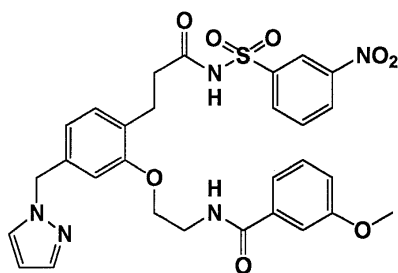


TLC: Rf 0.44(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.7Hz, 1H), 7.77(d, J=2.1Hz, 1H), 7.72(d, J=8.1Hz, 2H), 7.47-7.31(m, 6H), 7.07(m, 1H), 6.86(s, 1H), 6.84(d, J=7.2Hz, 1H), 6.55(d, J=7.2Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.01(t, J=5.4Hz, 2H), 3.78(s, 3H), 3.64-3.55(m, 2H), 2.64(t, J=7.5Hz, 2H), 2.44(t, J=7.5Hz, 2H), 2.38(s, 3H).

10(216)

N-(3-)-3-(2-(2-(3-))-4-(-1-))



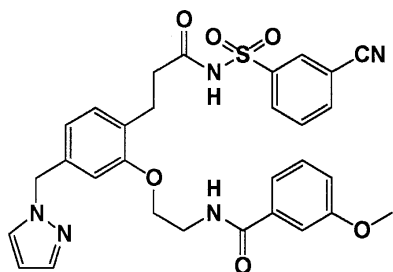
TLC: Rf 0.43(: =10:1);

NMR(300MHz, DMSO-d₆): 8.61(t, J=5.4Hz, 1H), 8.57(s, 1H), 8.52(d, J=7.8Hz, 1H), 8.25(d, J=7.8Hz, 1H), 7.89(t, J=7.8Hz, 1H), 7.76(d, J=2.1Hz, 1H), 7.45-7.28(m, 4H), 7.07(m, 1H), 6.85(d, J=8.4Hz, 1H), 6.84(s, 1H),

6.53(d, J=8.4Hz, 1H), 6.23(t, J=2.1Hz, 1H), 5.21(s, 2H), 4.01(t, J=5.7Hz, 2H), 3.77(s, 3H), 3.64-3.54(m, 2H), 2.65(t, J=7.2Hz, 2H), 2.46(t, J=7.2Hz, 2H).

10(217)

N-(3-)-3-(2-(2-(3-))-4-(-1-))

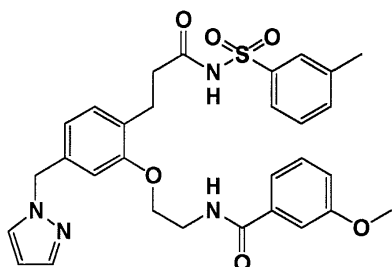


TLC: Rf 0.43(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.4Hz, 1H), 8.25(s, 1H), 8.17(d, J=8.1Hz, 1H), 8.13(d, J=8.1Hz, 1H), 7.80(t, J=8.1Hz, 1H), 7.76(d, J=2.1Hz, 1H), 7.77(d, J=2.1Hz, 1H), 7.46-7.30(m, 4H), 7.07(m, 1H), 6.85(d, J=7.8Hz, 1H), 6.84(s, 1H), 6.56(d, J=7.8Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.02(t, J=5.4Hz, 2H), 3.78(s, 3H), 3.66-3.56(m, 2H), 2.65(t, J=6.9Hz, 2H), 2.45(t, J=7.2Hz, 2H).

10(218)

N-(3-)-3-(2-(2-(3-))-4-(-1-))

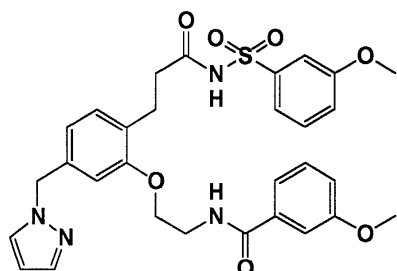


TLC: Rf 0.43(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.4Hz, 1H), 7.77(d, J=2.1Hz, 1H), 7.69-7.60(m, 2H), 7.52-7.30(m, 6H), 7.07(m, 1H), 6.86(d, J=7.8Hz, 1H), 6.85(s, 1H), 6.56(d, J=7.8Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.22(s, 2H), 4.02(t, J=5.7Hz, 2H), 3.78(s, 3H), 3.65-3.55(m, 2H), 2.65(t, J=7.2Hz, 2H), 2.43(t, J=7.2Hz, 2H), 2.37(s, 3H).

10(219)

N-(3-)-3-(2-(2-(3-))-4-(-1-))

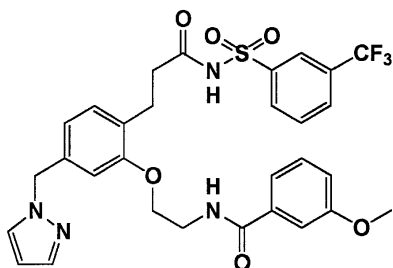


TLC: Rf 0.44(: =10:1);

NMR(300MHz, DMSO-d₆): 8.63(t, J=5.4Hz, 1H), 7.77(d, J=2.1Hz, 1H), 7.53-7.23(m, 9H), 7.07(m, 1H), 6.86(d, J=7.8Hz, 1H), 6.85(s, 1H), 6.56(d, J=7.8Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.02(t, J=5.7Hz, 2H), 3.80(s, 3H), 3.78(s, 3H), 3.65-3.56(m, 2H), 2.66(t, J=7.2Hz, 2H), 2.44(t, J=7.2Hz, 2H).

10(220)

N-(3-)-3-(2-(2-(3-))-4-(-1-))

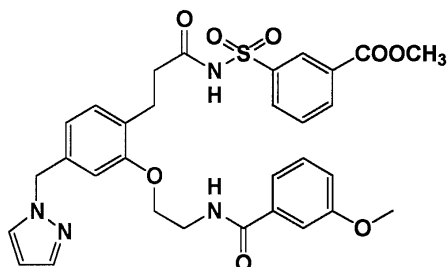


TLC: Rf 0.43(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.4Hz, 1H), 8.16-8.07(m, 3H), 7.85(t, J=8.1Hz, 1H), 7.76(d, J=2.1Hz, 1H), 7.46-7.28(m, 4H), 7.08(m, 1H), 6.85(s, 1H), 6.83(d, J=7.8Hz, 1H), 6.53(d, J=7.8Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.01(t, J=5.7Hz, 2H), 3.77(s, 3H), 3.65-3.55(m, 2H), 2.65(t, J=6.9Hz, 2H), 2.46(t, J=6.9Hz, 2H).

10(221)

N-(3-)-3-(2-(2-(3-))-4-(-1-))

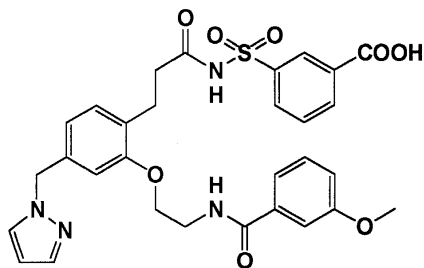


TLC: Rf 0.44(: =10:1);

NMR(300MHz, DMSO-d₆): 8.61(t, J=5.4Hz, 1H), 8.40(s, 1H), 8.23(d, J=7.8Hz, 1H), 8.09(d, J=7.8Hz, 1H), 7.78-7.69(m, 2H), 7.44-7.29(m, 4H), 7.06(m, 1H), 6.84(s, 1H), 6.83(d, J=7.5Hz, 1H), 6.53(d, J=7.5Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.21(s, 2H), 4.01(t, J=5.7Hz, 2H), 3.90(s, 3H), 3.77(s, 3H), 3.64-3.55(m, 2H), 2.64(t, J=7.2Hz, 2H), 2.44(t, J=7.2Hz, 2H).

10(222)

N-(3-)-3-(2-(2-(3-))-4-(-1-))

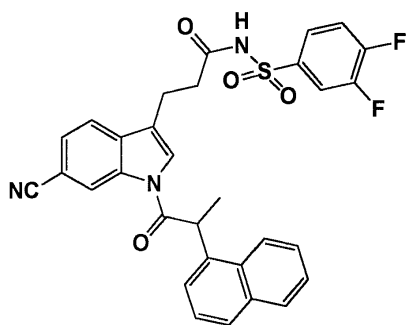


TLC: Rf 0.21(: =10:1);

NMR(300MHz, DMSO-d₆): 8.62(t, J=5.4Hz, 1H), 8.40(s, 1H), 8.22(d, J=7.8Hz, 1H), 8.06(d, J=7.8Hz, 1H), 7.79-7.69(m, 2H), 7.46-7.30(m, 4H), 7.06(m, 1H), 6.84(s, 1H), 6.83(d, J=7.5Hz, 1H), 6.53(d, J=7.5Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.21(s, 2H), 4.01(t, J=5.7Hz, 2H), 3.77(s, 3H), 3.64-3.55(m, 2H), 2.64(t, J=7.2Hz, 2H), 2.44(t, J=7.2Hz, 2H).

10(223)

N-(3,4-)-3-(6- -1-(1-(-1-)) -3-)

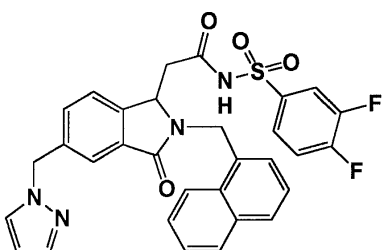


TLC: Rf 0.46(n- : : =100:100:1);

NMR(300MHz, DMSO-d₆): 12.25(brs, 1H), 8.70(s, 1H), 8.24(d, J=8.7Hz, 1H), 7.98(m, 1H), 7.89-7.82(m, 2H), 7.84-7.72(m, 3H), 7.68-7.55(m, 4H), 7.44(t, J=7.5Hz, 1H), 7.38(m, 1H), 5.50(q, J=6.9Hz, 1H), 2.80-2.60(m, 2H), 2.57-2.43(m, 2H), 1.63(d, J=6.9Hz, 3H).

10(224)

N-(3,4-)-2-(5-(-1-)-2-(-1-) -3- -1-)

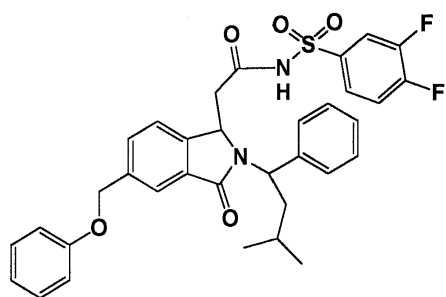


TLC: Rf 0.40(: =8:1);

NMR(300MHz, CDCl₃): 7.91(d, J=9.0Hz, 1H), 7.75(d, J=7.5Hz, 1H), 7.67(m, 2H), 7.50-7.00(m, 10H), 6.87(brs, 1H), 6.15(s, 1H), 5.68(d, J=15.1Hz, 1H), 5.15(s, 2H), 4.52(d, J=15.1Hz, 1H), 4.31(s, 1H), 2.80-2.60(m, 2H).

10(225)

N-(3,4-)-2-(5- -2-(3- -1-) -3- -1-)

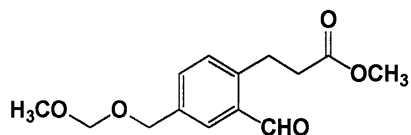


TLC: Rf 0.64(: =50:1);

NMR(300MHz, CDCl₃): 7.90-6.92(m, 16H), 5.70-4.70(m, 2H), 5.08(m, 2H), 3.00-2.00(m, 2H), 1.95-1.45(m, 3H), 0.94(m, 6H).

20

3-(2- -4-)

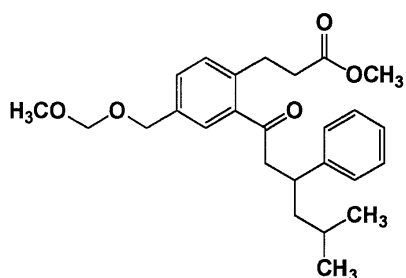


3-(2- -4-) , 12 19

TLC: Rf 0.58(: =1:1).

21

3-(2-(5- -3-)-4-)

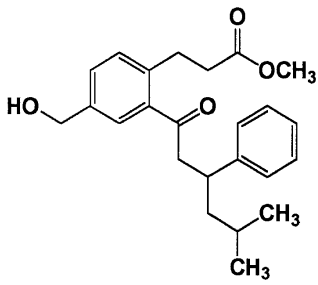


, (4- 20 -2-) ; (5 Ml) -78 ; 2.33 Ml, 0.55 M) 가 , 0.5 Ml 가 가 1 . (0.71 Ml) (5 Ml) , , - (407 mg) 가 3 (225 mg)

TLC: Rf 0.56(: =2:1).

11

3-(2-(5- -3-)-4-)



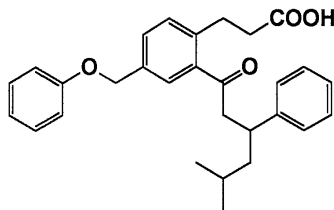
21 (220 mg) (3 Mℓ) 10% (0.5 Mℓ) 가
 10% (0.5 Mℓ) 가 , 45 1 ,
 (200 mg)

TLC: Rf 0.32(: =2:1);

NMR(300MHz, CDCl₃): 7.42(d, J=1.5Hz, 1H), 7.35-7.13(m, 7H), 4.66(d, J=4.5Hz, 2H), 3.64(s, 3H), 3.38(m, 1H), 3.20(dd, J=16.2, 7.8Hz, 1H), 3.11(dd, J=16.2, 6.6Hz, 1H), 2.88(m, 2H), 2.49(m, 2H), 1.70-1.30(m, 4H), 0.90(d, J=6.6Hz, 3H), 0.84(d, J=6.6Hz, 3H).

12

3-(2-(5- -3-)-4-)



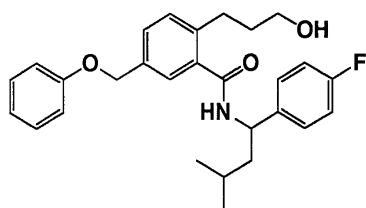
11 , 2 3

TLC: Rf 0.28(: =3:1, 0.5%);

NMR(300MHz, CDCl₃): 7.52(d, J=1.5Hz, 1H), 7.43(dd, J=7.8, 1.5Hz, 1H), 7.36-7.21(m, 5H), 7.19-7.12(m, 3H), 7.03-6.94(m, 3H), 5.03(s, 2H), 3.38(m, 1H), 3.20(dd, J=16.2, 7.8Hz, 1H), 3.11(dd, J=16.2, 6.6Hz, 1H), 2.88(m, 2H), 2.54(m, 2H), 1.64(ddd, J=13.2, 9.9, 4.5Hz, 1H), 1.52-1.30(m, 2H), 0.89(d, J=6.6Hz, 3H), 0.83(d, J=6.6Hz, 3H).

13

3-(2-((3- -1-(4-)))-4-)



6(40) (2.00 g) (5 Mℓ) , 0 (1 M
 , 8.6 Mℓ) 가 , 30 가 ,

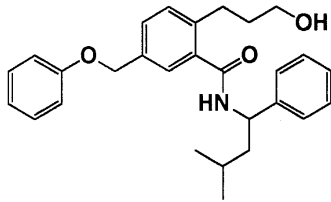
(1.67 g)

TLC: Rf 0.40(: =1:1);

NMR(300MHz, CDCl₃): 7.43(dd, J=8.1, 2.1Hz, 1H), 7.34-7.27(m, 6H), 7.07-6.95(m, 5H), 6.13(d, J=8.1Hz, 1H), 5.21(q, J=8.1Hz, 1H), 5.02(s, 2H), 3.44(t, J=5.4Hz, 2H), 2.87-2.71(m, 2H), 1.91-1.52(m, 5H), 0.98(d, J=6.6Hz, 6H).

13(1)

3-(2-((3- -1-))-4-)



6(33)

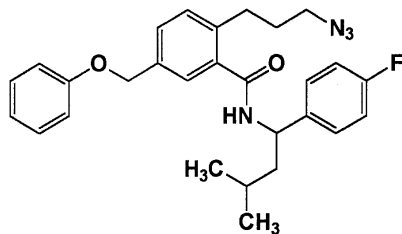
13

TLC: Rf 0.61(: =10:1);

NMR(300MHz, CDCl₃): 7.46-7.25(m, 10H), 7.02-6.94(m, 3H), 6.13(d, J=9.0Hz, 1H), 5.24(dt, J=9.0, 9.0Hz, 1H), 5.02(s, 2H), 3.50(brs, 1H), 3.43(brs, 2H), 2.86-2.72(m, 2H), 1.85-1.50(m, 5H), 0.98(d, J=6.3Hz, 6H).

22

3-[4- -2-[1-(4-)-3-]]

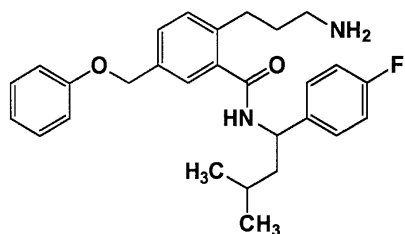


13(1) (1.46 g) (5 Mℓ) (0.30 Mℓ) (1 Mℓ)
 가 , 50 2 , 가 , ,
 N,N- (354 mg) 가 , 80
 (1.16 g)

Mass(APCI, pos. 20 V); 475(M+H) + .

23

3-[4- -2-[1-(4-)-3-]]

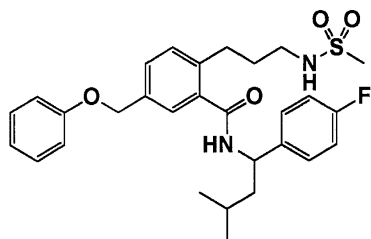


22 (600 mg) (3 Mℓ) (500 mg) (0.3 Mℓ) 가
 2 (290 mg)

NMR(300MHz, CDCl₃): 7.42-7.23(m, 7H), 7.07-6.87(m, 6H), 5.22(q, J=8.1Hz, 1H), 5.02(s, 2H), 2.80-2.74(m, 2H), 2.62(t, J=6.6Hz, 2H), 1.83-1.55(m, 5H), 1.00-0.97(m, 6H).

14

N-(3- -1-(4-))-2-(3-)-5-



23 (154 mg) (1 Mℓ) (0.030 Mℓ) (0.2 Mℓ) 가
 (126 mg)

TLC: Rf 0.20(: =1:1);

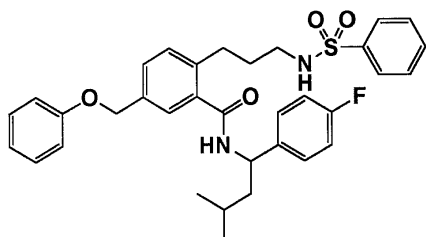
NMR(300MHz, CDCl₃): 7.44(dd, J=7.8, 1.8Hz, 1H), 7.36-7.29(m, 6H), 7.08-6.95(m, 5H), 6.03(d, J=8.1Hz, 1H), 5.70(t, J=6.3Hz, 1H), 5.20(q, J=8.1Hz, 1H), 5.03(s, 2H), 3.03-2.96(m, 2H), 2.84(s, 3H), 2.81-2.64(m, 2H), 1.95-1.65(m, 5H), 0.99(d, J=6.3Hz, 6H).

14(1) 14(5)

14

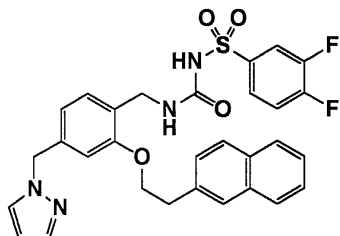
14(1)

N-(3- -1-(4-))-2-(3-)-5-



TLC: Rf 0.50(: =1:1);

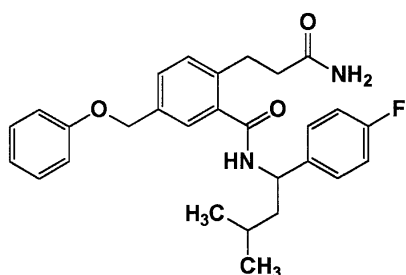
NMR(300MHz, CDCl₃): 7.80-7.77(m, 2H), 7.49-7.29(m, 9H), 7.18(d, J=8.1Hz, 1H), 7.09-6.94(m, 5H), 6.



TLC: Rf 0.49(: =10:1).

15

3-[4- -2-[1-(4-)-3-]]



6(40)

(0.037 Mℓ)

가

(150 mg)

(2 Mℓ)

30

(0.068 Mℓ)

가

, 가 10

가

1N

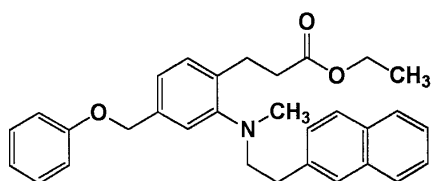
n-

(119 mg)

NMR(300MHz, CDCl₃):7.44-7.28(m, 7H), 7.07-6.95(m, 5H), 6.88(d, J=8.4Hz, 1H), 6.04(brs, 1H), 5.23-5.16 (m, 2H), 5.03(s, 2H), 3.06-2.89(m, 2H), 2.61(t, J=7.2Hz, 2H), 1.84-1.62(m, 3H), 0.98(d, J=6.3Hz, 6H).

24

N-(3- -1-(4-))-2-(2-)-5-



15

(119 mg)

(2 Mℓ)

, 0

(0.1 Mℓ)

(54 μℓ) 가

10

가

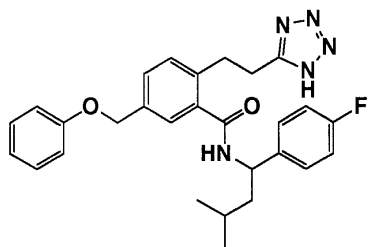
n-

(94 mg)

NMR(300MHz, CDCl₃): 7.50-7.29(m, 7H), 7.08-6.96(m, 5H), 6.07(d, J=8.4Hz, 1H), 5.17(q, J=8.4Hz, 1H), 5.06(s, 2H), 3.08-2.91(m, 2H), 2.76-2.62(m, 2H), 1.82-1.68(m, 3H), 1.00-0.97(m, 6H).

16

N-(3- -1-(4-))-2-(2-(-5-))-5-



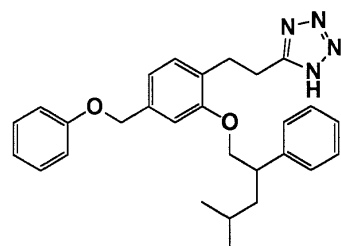
24 (94 mg) (2 Mℓ) (65 mg) 가 120
 3 : (3 Mℓ) 1N (2 Mℓ) 가 ,
 1 : 가 , n- -
 (94 mg) .

TLC: Rf 0.30();

NMR(300MHz, CDCl₃): 8.90(d, J=8.4Hz, 1H), 7.43-7.36(m, 4H), 7.32-7.24(m, 3H), 7.11-6.91(m, 5H), 5.08(s, 2H), 5.05-5.00(m, 1H), 3.15-3.04(m, 4H), 1.62-1.53(m, 1H), 1.48-1.39(m, 1H), 0.87(d, J=6.3Hz, 6H).

16(1)

1-(2-(-5-))-2-(4- -2-)-4-

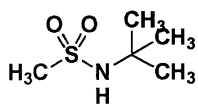


16

TLC: Rf 0.40(: =1:1).

25

N-t-



tert- (6.8 Mℓ) (7.8 Mℓ) (50 Mℓ) 0 (5.0 Mℓ) 가 ,
 30 (5.2 g) .

TLC: Rf 0.26(n- : =2:1);

NMR(300MHz, CDCl₃): 4.22(brs, 1H), 3.02(s, 3H), 1.39(s, 9H).

26

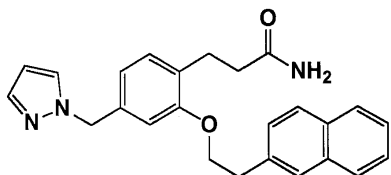
4-(1-)-2-[2-(-2-)]

TLC: Rf 0.31(n- : =1:2);

NMR(300MHz, DMSO-d₆): 7.98-7.91(m, 2H), 7.89-7.77(m, 4H), 7.76(d, J=2.4Hz, 1H), 7.62(m, 1H), 7.56-7.40(m, 6H), 7.13(d, J=8.1Hz, 1H), 6.87(s, 1H), 6.65(d, J=8.1Hz, 1H), 6.24(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.17(t, J=6.6Hz, 2H), 3.74-3.61(m, 2H), 3.15(t, J=6.6Hz, 2H), 3.01-2.91(m, 2H).

21

3-[2-[2-()]-4-(1-)]



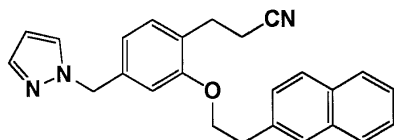
3(12) (700 mg) (15 Mℓ)
 (305 μℓ) N,N- () 가 30
 28% (5 Mℓ) 가 , 가 30
 , , (708 mg) 0
 1N 가 ,

TLC: Rf 0.35(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.76(m, 3H), 7.72(s, 1H), 7.54(d, J=1.5Hz, 1H), 7.49-7.36(m, 4H), 7.08(d, J=7.5Hz, 1H), 6.71(d, J=7.5Hz, 1H), 6.69(s, 1H), 6.27(dd, J=2.4, 1.5Hz, 1H), 5.25(s, 2H), 4.93(brs, 1H), 4.72(b rs, 1H), 4.26(t, J=6.6Hz, 2H), 3.25(t, J=6.6Hz, 2H), 2.80(t, J=7.5Hz, 2H), 2.14(t, J=7.5Hz, 2H).

28

3-[4-(1-)]-2-[2-()]



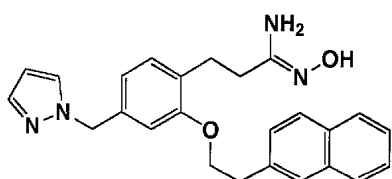
21 , 24 (1.5
 6 g)

TLC: Rf 0.50(n- : =1:1);

NMR(300MHz, CDCl₃): 7.85-7.78(m, 3H), 7.70(s, 1H), 7.54(d, J=1.8Hz, 1H), 7.51-7.36(m, 4H), 7.08(d, J=7.5Hz, 1H), 6.73(dd, J=7.5, 1.2Hz, 1H), 6.69(d, J=1.2Hz, 1H), 6.27(dd, J=2.1, 1.8Hz, 1H), 5.26(s, 2H), 4.23(t, J=6.6Hz, 2H), 3.23(t, J=6.6Hz, 2H), 2.82(t, J=7.5Hz, 2H), 2.31(t, J=7.5Hz, 2H).

29

3-[4-(1-)]-2-[2-()]-1-



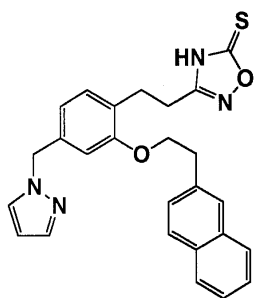
28 (30 Mℓ) (1.06 Mℓ) (530 mg)
 가 2 , , (n-
 : =1:1 : =10:1) (920 mg)

TLC: Rf 0.33(: =10:1);

NMR(300MHz, CDCl₃): 7.82-7.76(m, 3H), 7.71(s, 1H), 7.54(m, 1H), 7.48-7.35(m, 4H), 7.06(d, J=7.5Hz, 1H), 6.70(dd, J=7.5, 0.9Hz, 1H), 6.69(d, J=0.9Hz, 1H), 6.26(dd, J=2.4, 2.1Hz, 1H), 5.25(s, 2H), 4.24(t, J=6.6Hz, 2H), 4.20(brs, 2H), 3.24(t, J=6.6Hz, 2H), 2.77-2.72(m, 2H), 2.24-2.18(m, 2H).

22

3-(2-(2-(2-(-2-))-4-(-1-)) -1,2,4- -5-



29 (180 mg) (4.0 Mℓ) 1,8- [5.4.0] -
 7- (260 μℓ) N,N'- (116 mg) 가 1 1N
 가 , (n- : =1:1 1:3)
 (150 mg)

TLC: Rf 0.41(: =10:1);

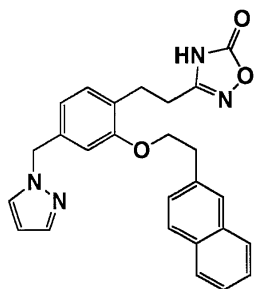
NMR(300MHz, CDCl₃): 7.82-7.73(m, 3H), 7.69(s, 1H), 7.58(d, J=1.8Hz, 1H), 7.50-7.35(m, 4H), 6.64(d, J=7.5Hz, 1H), 6.58(d, J=0.9Hz, 1H), 6.40(dd, J=7.5, 0.9Hz, 1H), 6.32(dd, J=2.1, 1.8Hz, 1H), 5.19(s, 2H), 4.19(t, J=6.6Hz, 2H), 3.20(t, J=6.6Hz, 2H), 2.67(t, J=7.5Hz, 2H), 2.32(t, J=7.5Hz, 2H).

22(1) 22(5)

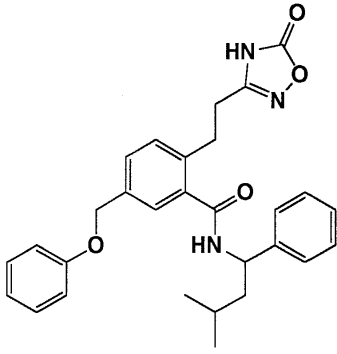
22

22(1)

3-(2-(2-(2-(-2-))-4-(-1-)) -1,2,4- -5-



TLC: Rf 0.46(: =1:3);

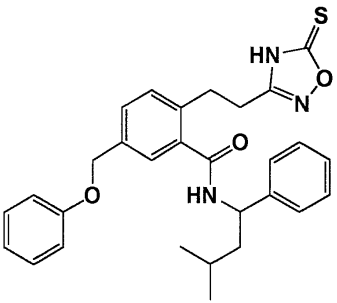


TLC: Rf 0.66(n- : =1:2);

NMR(300MHz, DMSO-d₆): 8.88(d, J=8.4Hz, 1H), 7.47-7.16(m, 11H), 7.05-6.90(m, 3H), 5.09(s, 2H), 5.04(m, 1H), 2.98-2.87(m, 2H), 2.79-2.67(m, 2H), 1.75(m, 1H), 1.61(m, 1H), 1.45(m, 1H), 0.91(d, J=6.3Hz, 3H), 0.90(d, J=6.3 Hz, 3H).

_____ 22(5)

3-(2-(2-(3- -1-)-4-)) -1,2,4- -5-

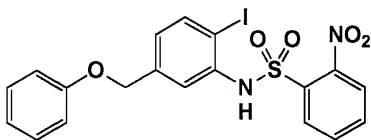


TLC: Rf 0.48(: =10:1);

NMR(300MHz, DMSO-d₆): 7.52-7.22(m, 10H), 7.04-6.93(m, 3H), 6.31(d, J=8.4Hz, 1H), 5.24(m, 1H), 5.05(s, 2H), 3.17-2.88(m, 4H), 1.89-1.51(m, 3H), 1.01(d, J=6.6Hz, 3H), 1.00(d, J=6.6Hz, 3H).

_____ 30

4- -2-(2-)



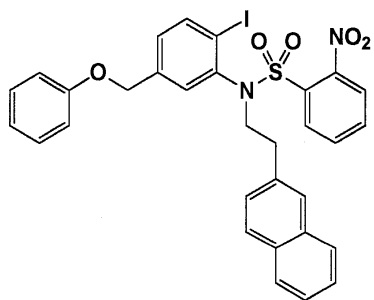
2- -4- (600 mg) (4.0 Ml) 0 (0.45 Ml) 2-
(429 mg) 가 , , ,
(n- : =2:1)

TLC: Rf 0.38(n- : =2:1);

NMR(300MHz, CDCl₃): 7.90(m, 1H), 7.80(m, 1H), 7.77-7.65(m, 3H), 7.56(m, 1H), 7.36-7.23(m, 3H), 7.05-6.91(m, 4H), 5.06(s, 2H).

_____ 31

4- -2-[N-[2-(-2-)]-N-2-]



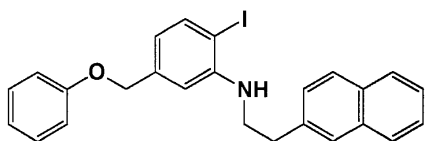
30 (788 mg) 2-(-2-) (385 mg) (5.0 Mℓ)
 (0.97 Mℓ) (585 mg) 가 ,
 (n- : =3:1)

TLC: Rf 0.47(n- : =2:1);

NMR(300MHz, CDCl₃): 7.88-7.11(m, 16H), 7.04-6.85(m, 3H), 6.87(d, J=12.3Hz, 1H), 4.80(d, J=12.3Hz, 1H), 4.40(m, 1H), 3.89(m, 1H), 3.18-3.00(m, 2H).

32

4- -2-[2-(-2-)]



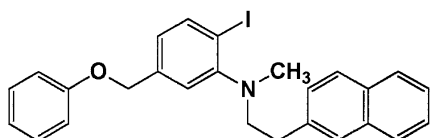
31 (750 mg) (3.8 Mℓ) (160 mg) (0.14
 Mℓ) 가 , 2N
 (n- : =20:1)

TLC: Rf 0.84(n- : =2:1);

NMR(300MHz, CDCl₃): 7.86-7.76(m, 3H), 7.68(s, 1H), 7.62(d, J=7.8Hz, 1H), 7.52-7.41(m, 2H), 7.39-7.24(m, 3H), 7.01-6.92(m, 3H), 6.69(m, 1H), 6.52(m, 1H), 4.98(s, 2H), 4.32(m, 1H), 3.57-3.45(m, 2H), 3.10(t, J=6.9Hz, 2H).

33

4- -2-[N-[2-(-2-)]-N-]



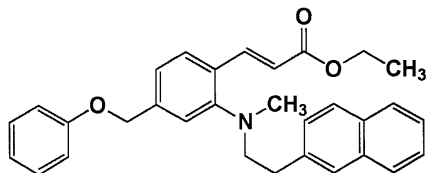
32 (170 mg) N,N- (1.2 Mℓ) (570 mg)
 (0.07 Mℓ) 가 60 1.5 ,

TLC: Rf 0.47(n- : =10:1);

NMR(300MHz, CDCl₃): 7.86(d, J=8.1Hz, 1H), 7.83-7.71(m, 3H), 7.63(s, 1H), 7.48-7.24(m, 5H), 7.18(d, J=1.8Hz, 1H), 7.71-6.92(m, 3H), 6.86(dd, J=7.8, 1.8Hz, 1H), 4.98(s, 2H), 3.32-3.24(m, 2H), 3.06-2.97(m, 2H), 2.84(s, 3H).

23

4- -2-[N-[2-(-2-)]-N-]



33

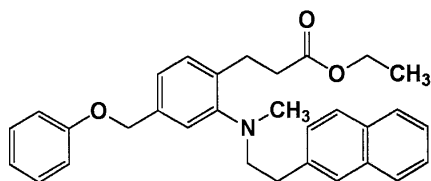
1

TLC: Rf 0.26(n- : =10:1);

NMR(300MHz, CDCl₃): 8.07(d, J=16.2Hz, 1H), 7.82-7.69(m, 3H), 7.60-7.50(m, 2H), 7.48-7.36(m, 2H), 7.35-7.22(m, 3H), 7.15(s, 1H), 7.08(m, 1H), 7.03-6.90(m, 3H), 6.40(d, J=16.2Hz, 1H), 5.02(s, 2H), 4.27(q, J=7.2Hz, 2H), 3.32-3.22(m, 2H), 3.19-2.99(m, 2H), 2.87(s, 3H), 1.33(t, J=7.2Hz, 3H).

24

3-[4- -2-[N-[2-(-2-)]-N-]]



23

(70 mg)

(135 mg)

(45 mg)

가

(1.2 Mℓ)-

(0.3 Mℓ)

0

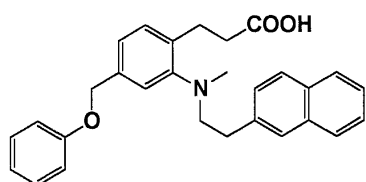
.6

TLC: Rf 0.59(: =10:1);

NMR(300MHz, CDCl₃): 7.82-7.70(m, 3H), 7.59(m, 1H), 7.48-7.06(m, 8H), 7.02-6.91(m, 3H), 5.00(s, 2H), 4.09(q, J=7.2Hz, 2H), 3.26-3.16(m, 2H), 3.01-2.88(m, 4H), 2.76(s, 3H), 2.60-2.50(m, 2H), 1.22(t, J=7.2Hz, 3H).

25

3-(2-(N- -N-(2-(-2-))))-4-)



24

3

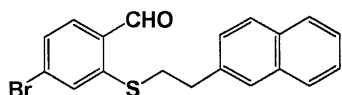
2- (3.0 g) (20 Mℓ) (6.5 g) 2,2'- (2- (7.5 mg) (950 mg) 가 30 (2.5 g) 가 30 (7.5 mg) 가 30

TLC: Rf 0.63(n- : =10:1);

NMR(300MHz, CDCl₃): 7.86-7.75(m, 2H), 7.68-7.60(m, 1H), 7.53-7.10(m, 4H), 3.09(t, J=7.4Hz, 2H), 2.88(dt, J=7.8, 7.4Hz, 2H), 1.41(t, J=7.8Hz, 1H).

36

4- -2-[2-(-2-)]



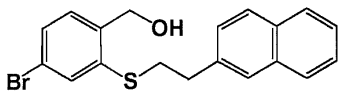
35 (2.8 g) N,N- (20 Mℓ) (450 mg, 62.7%) 가 , 1 0 가 , 30 4- -2- (2.0 g) N,N- 가 , (n- : =20:1) (2.6 g)

TLC: Rf 0.44(n- : =10:1);

NMR(300MHz, CDCl₃): 10.28(s, 1H), 7.89-7.76(m, 3H), 7.70-7.63(m, 2H), 7.57-7.32(m, 5H), 3.36-3.26(m, 2H), 3.22-3.12(m, 2H).

37

4- -2-[2-(-2-)]



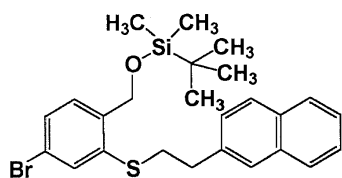
36 (2.5 g) (15 Mℓ) (20 Mℓ) 가 , (226 mg) 가 0 10 가 ,

TLC: Rf 0.13(n- : =10:1);

NMR(300MHz, CDCl₃): 7.86-7.76(m, 3H), 7.66-7.61(m, 1H), 7.52-7.40(m, 3H), 7.36-7.24(m, 3H), 4.68(s, 2H), 3.33-3.24(m, 2H), 3.16-3.07(m, 2H).

38

[4- -2-[2-(-2-)]]-(t-)



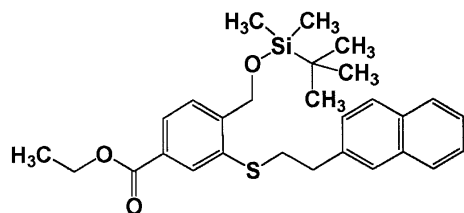
37 (2.7 g) , 13

TLC: Rf 0.89(n- : =5:1);

NMR(300MHz, CDCl₃): 7.86-7.76(m, 3H), 7.64(brs, 1H), 7.52-7.30(m, 6H), 4.69(s, 2H), 3.29-3.20(m, 2H), 3.14-3.05(m, 2H), 0.94(s, 9H), 0.10(s, 6H).

39

4-(t-)-3-[2-(-2-)]



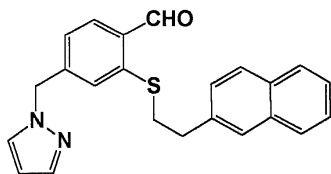
38 (1.5 g) (12 Mℓ), (9 Mℓ) N,N- (9 Mℓ) (110 mg) 가 80 3 (n- : =30:1) (1.6 g)

TLC: Rf 0.34(n- : =20:1);

NMR(300MHz, CDCl₃): 8.04(d, J=1.8Hz, 1H), 7.90(dd, J=7.8, 1.8Hz, 1H), 7.85-7.74(m, 3H), 7.68-7.60(m, 2H), 7.51-7.40(m, 2H), 7.34(dd, J=8.4, 1.8Hz, 1H), 4.79(s, 2H), 4.39(q, J=7.1Hz, 2H), 3.35-3.26(m, 2H), 3.16-3.06(m, 2H), 1.41(t, J=7.1Hz, 3H), 0.95(s, 9H), 0.11(s, 6H).

40

4-(-1-)-2-[2-(-2-)]



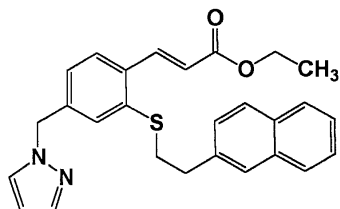
39 , 4 2 7 19

TLC: Rf 0.33(n- : =2:1);

NMR(300MHz, CDCl₃): 10.33(s, 1H), 8.65-8.58(m, 1H), 7.86-7.25(m, 11H), 6.32(t, J=2.1Hz, 1H), 5.33(s, 2H), 3.27-3.05(m, 4H).

27

3-(2-(2-(-2-))-4-(-1-))



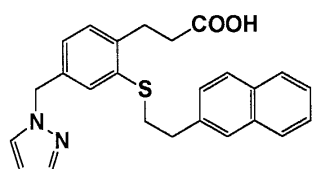
(6 Ml) (98 mg, (6 Ml) 63.1% 가 , 10 , (0.56 Ml, 2.82 mmol) 40 0 (2.35 mmol) 가 ,

TLC: Rf 0.45(n- : =2:1);

NMR(300MHz, CDCl₃): 8.20(d, J=15.9Hz, 1H), 7.84-7.73(m, 3H), 7.62-7.36(m, 6H), 7.30-7.24(m, 1H), 7.22-7.17(m, 1H), 7.05-6.69(m, 1H), 6.35(d, J=15.9Hz, 1H), 6.30(t, J=2.3Hz, 1H), 5.27(s, 2H), 4.26(q, J=6.9Hz, 2H), 3.21-3.13(m, 2H), 3.07-3.00(m, 2H), 1.35(t, J=6.9Hz, 3H).

28

3-(2-(2-(-2-))-4-(-1-)))



27

24

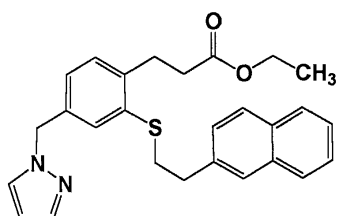
3

TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.74(m, 3H), 7.61(brs, 1H), 7.58-7.54(m, 1H), 7.50-7.39(m, 2H), 7.38-7.35(m, 1H), 7.32-7.26(m, 1H), 7.21-7.11(m, 2H), 6.98-6.92(m, 1H), 6.27(t, J=1.9Hz, 1H), 5.26(s, 2H), 3.23-3.14(m, 2H), 3.09-2.99(m, 4H), 2.70-2.60(m, 2H).

29

3-(2-(2-(-2-))-4-(-1-)))



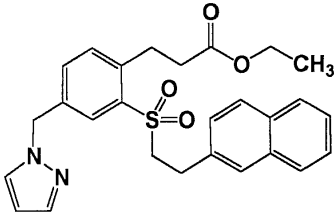
27

24

TLC: Rf 0.47(: =2:1).

30

3-[4-(
-1-)-2-[2-(
-2-)]]



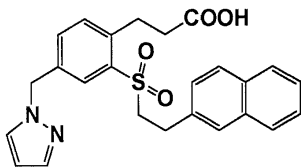
29 (105 mg) 가 (100 mg) (2.5 Mℓ) -30 (97 mg) 3-
1 (90 mg) 가 1 (30 Mℓ) 가 가
(n- : =3:2)

TLC: Rf 0.41(n- : =1:1);

NMR(300MHz, CDCl₃): 7.86-7.69(m, 5H), 7.60-7.53(m, 2H), 7.50-7.38(m, 3H), 7.36-7.19(m, 2H), 6.31(t, J=2.1Hz, 1H), 5.21(s, 2H), 4.12(q, J=7.2Hz, 2H), 3.59-3.50(m, 2H), 3.36-3.16(m, 4H), 2.78-2.69(m, 2H), 1.22(t, J=7.2Hz, 3H).

31

3-(2-(2-(
-2-))-4-(
-1-))



30

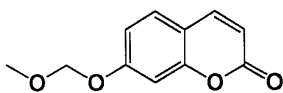
3

TLC: Rf 0.39(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.68(m, 4H), 7.58-7.54(m, 2H), 7.48-7.39(m, 3H), 7.35-7.25(m, 2H), 7.20(dd, J=8.7, 1.8Hz, 1H), 6.31(t, J=2.1Hz, 1H), 5.26(s, 2H), 3.58-3.49(m, 2H), 3.35-3.16(m, 4H), 2.82-2.72(m, 2H).

41

7-



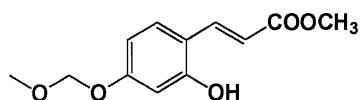
, 7- (100 g), (161 Mℓ) (DMF; 500 Mℓ)
0 (70.3 Mℓ) 가 4 /
(2/1, 1000 Mℓ) , (1000 Mℓ) 가 , 2 . (2
) , , , (74.1
g) .

TLC: Rf 0.50(: =3:2);

NMR(300MHz, CDCl₃): 7.64(d, J=9.6Hz, 1H), 7.39(d, J=8.7Hz, 1H), 7.01(d, J=2.4Hz, 1H), 6.96(dd, J=8.7, 2.4Hz, 1H), 6.28(d, J=9.6Hz, 1H), 5.24(s, 2H), 3.49(s, 3H).

42

3-(4- -2-)



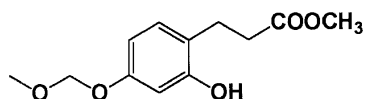
(46.9 g; 63.1%) (THF; 300 Mℓ) , , T
 (60 Mℓ) 가 20
 HF(1000 Mℓ)/ (100 Mℓ) 가 60 40
 가 , 2N
 가 , (100.2 g)

TLC: Rf 0.38(: =2:1);

NMR(300MHz, CDCl₃): 7.92(d, J=16Hz, 1H), 7.39(d, J=8.5Hz, 1H), 6.62(dd, J=8.5, 2.2Hz, 1H), 6.54(d, J=2.2Hz, 1H), 6.51(d, J=16Hz, 1H), 6.01(s, 1H), 5.17(s, 2H), 3.81(s, 3H), 3.47(s, 3H).

43

3-(4- -2-)



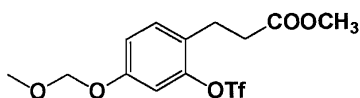
42 (45.0 g) 10% (4.2 g, wet) (500 Mℓ) , ,
 7 2 (batch) , 2
 (92.1 g)

TLC: Rf 0.47(: =3:2);

NMR(300MHz, CDCl₃): 7.24(s, 1H), 6.97(d, J=8.2Hz, 1H), 6.61(d, J=2.5Hz, 1H), 6.57(dd, J=8.2, 2.5Hz, 1H), 5.13(s, 2H), 3.69(s, 3H), 3.46(s, 3H), 2.84(t, J=6.1Hz, 2H), 2.69(t, J=6.1Hz, 2H).

44

3-(4- -2-)



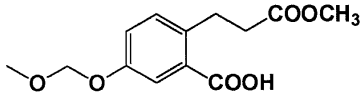
43 (82.8 g) (33.5 Mℓ) (300 Mℓ) , ,
 (63.8 Mℓ) 가 10 가 ,
 (121.8 g)

TLC: Rf 0.65(: =2:1);

NMR(300MHz, CDCl₃): 7.24(d, J=8.4Hz, 1H), 7.04-6.96(m, 2H), 5.16(s, 2H), 3.68(s, 3H), 3.47(s, 3H), 2.98(t, J=7.5Hz, 2H), 2.63(t, J=7.5Hz, 2H).

45

3-(4- -2-)



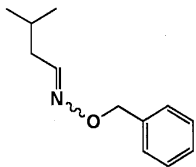
44 (II)(21.55 g) , 1,1'- () (7.65 g), (169.0 g)
 DMF(400 Mℓ) 가 , 90 2
 () , t- / (1/1) 가 ,
 (4) .
 (: =1:1) , /
 (51.4 g) .

TLC: Rf 0.34(: =1:1);

NMR(300MHz, CDCl₃): 7.71(d, J=2.7Hz, 1H), 7.24(d, J=8.7Hz, 1H), 7.17(dd, J=8.7, 2.7Hz, 1H), 5.20(s, 2H), 3.67(s, 3H), 3.49(s, 3H), 3.27(t, J=7.6Hz, 2H), 2.68(t, J=7.6Hz, 2H).

46

1- -1- -4- -1-

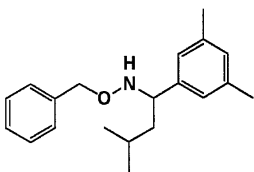


3- (60.8 g) (112.7 g) (500 Mℓ) , 80 2
 , 1N ,
 (134 g) .

TLC: Rf 0.85(n- : =9:1).

47

N- -N-(3- -1-(3,5-))



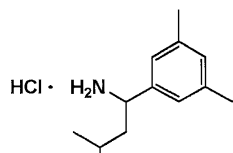
, 5- -m- (75 g) THF(575 Mℓ) n- (235 Mℓ) -78 가 1
 가 , 3 46 (29.8 g) (338 Mℓ) , (51 Mℓ)
 , 가 , 4N - (50 Mℓ) 가 .
 (23 g) .

TLC: Rf 0.72(n- : =9:1);

NMR(300MHz, CDCl₃): 7.20-7.00(m, 5H), 6.96(s, 2H), 6.91(s, 1H), 4.67(m, 1H), 4.61(d, J=15.3Hz, 1H), 4.53(d, J=15.3Hz, 1H), 2.32(s, 6H), 1.80-1.57(m, 3H), 0.95(d, J=6.6Hz, 6H).

48

3- -1-(3,5-) .



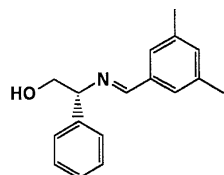
47 (12 g) (120 Mℓ) 10% (1.2 g) 가 ,
 가 (/) 4N -
 (7.5 g) .

TLC: Rf 0.50(: =9:1);

NMR(300MHz, DMSO-d₆): 8.32(br, 3H), 7.11(s, 2H), 6.98(s, 1H), 4.07(m, 1H), 2.23(s, 6H), 1.74-1.66(m, 2H), 1.31(m, 1H), 0.88(d, J=6.6Hz, 3H), 0.86(d, J=6.6Hz, 3H).

49

(2R)-3- -2- -4-(3,5-) -3- -1-

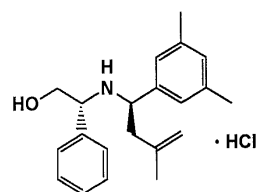


3,5- (30.0 g), (R)- (30.7 g) (200 Mℓ) ,
 3 (59.7 g) .

TLC: Rf 0.69(n- : =4:1).

50

(2R, 4R)-3- -2- -6- -4-(3,5-) -6- -1- .



THF(450 Mℓ) (40.8 g) THF(800 Mℓ) / , 3- -2- -1- (60.8 g)
 가 , 1 30 , 1 (Grignard)

20 Mℓ) 3 , 49 가 30 (300 Mℓ) / , (0.5 M; 11
 가 ,

) 가 , (500 Mℓ) , 4N / (100 Mℓ)
 (60.9 g)

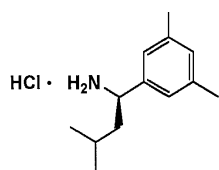
TLC: Rf 0.80(n- : =1:2);

NMR(300MHz, CDCl₃): 9.52(brs, 2H), 7.39-7.20(m, 5H), 6.94(s, 2H), 6.81(s, 1H), 5.44(brs, 1H), 4.70(s, 1H), 4.63(s, 1H), 4.40-4.20(m, 2H), 4.14(m, 1H), 3.83(m, 1H), 3.11(dd, J=14, 4.4Hz, 1H), 2.94(dd, J=14, 11Hz)

, 1H), 2.17(s, 6H), 1.49(s, 3H).

51

(1R)-3-(3,5-dimethylphenyl)-2-methylbutan-1-amine hydrochloride



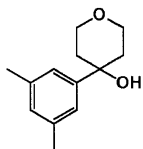
50 (33.0 g) (IV)(4.60 g) (330 Mℓ) 가 , 60
 40 (7.30 g) /

TLC: Rf 0.30(: =9:1);

NMR(300MHz, DMSO-d₆): 8.41(brs, 3H), 7.11(s, 2H), 7.01(s, 1H), 4.10(m, 1H), 2.27(s, 6H), 1.82-1.66(m, 2H), 1.31(m, 1H), 0.86(d, J=6.6Hz, 3H), 0.82(d, J=6.6Hz, 3H).

52

4-(3,5-dimethylphenyl)-2-methylbutan-1-ol



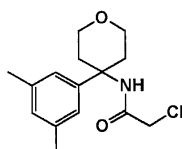
, 5- -m- (5.55 g) THF(60 Mℓ) -78 n- (17.8 Mℓ) 가 1
 -4- (2.0 g) 가 , 가 3 가
 (:n- =1:3) (2.6 g)

TLC: Rf 0.51(:n- =1:1);

NMR(300MHz, CDCl₃): 7.10(s, 2H), 6.93(s, 1H), 3.99-3.82(m, 5H), 2.34(s, 6H), 2.23-2.11(m, 2H), 1.72-1.63(m, 2H).

53

N-(4-(3,5-dimethylphenyl)-2-methylbutan-1-yl)acetamide



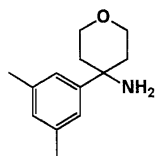
52 (1.51 g) (5 Mℓ) (10 Mℓ) , (3
) 가 , 5N , t- (288 mg)

TLC: Rf 0.54(:n- =1:1);

NMR(300MHz, CDCl₃): 6.98(s, 2H), 6.90(s, 1H), 6.76(bs, 1H), 4.02(s, 2H), 3.89(dt, J=12.0, 3.3Hz, 2H), 3.72(dt, J=12.0, 2.1Hz, 2H), 2.42-2.34(m, 2H), 2.32(s, 6H), 2.29-2.13(m, 2H).

54

N-(4-(3,5-



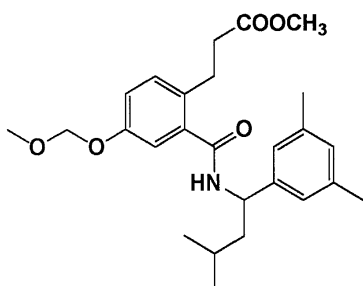
53 (250 mg) (2 Mℓ) (0.4 Mℓ) (81.2 mg) 가 70
 t- , 2N ,
 (160 mg) .

TLC: Rf 0.54(: =1:5);

NMR(300MHz, CDCl₃): 7.07(s, 2H), 6.90(s, 1H), 3.92(dt, J=11.4, 2.4Hz, 2H), 3.79(dt, J=11.4, 4.2Hz, 2H), 2.34(s, 6H), 2.24-2.13(m, 2H), 1.68-1.60(m, 2H).

32

3-(2-((3-



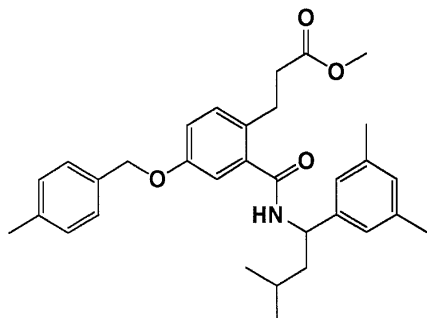
45 (1.00 g), 48 (930 mg), 1- -3-[3-()
] (1.36 g), 1- (958 mg) N- (1.6 Mℓ) DMF(14 Mℓ)
 3 가 , /
 (1.29 g) .

TLC: Rf 0.84(: =1:1);

NMR(300MHz, CDCl₃): 7.16-7.12(m, 1H), 7.04-6.98(m, 2H), 6.96(s, 2H), 6.89(s, 1H), 6.40(d, J=9.0Hz, 1 H), 5.20-5.10(m, 3H), 3.62(s, 3H), 3.46(s, 3H), 3.00-2.90(m, 2H), 2.65-2.55(m, 2H), 2.31(s, 6H), 1.80-1.60(m, 3H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

33

3-(2-((3-



32

11

5

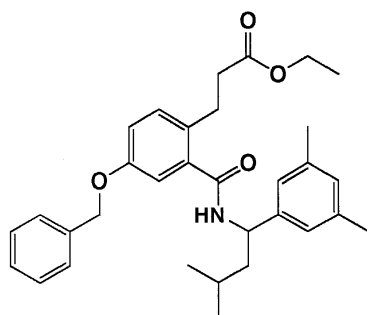
TLC: Rf 0.61(n- : =2:1).

33(1) 33(21)

33

33(1)

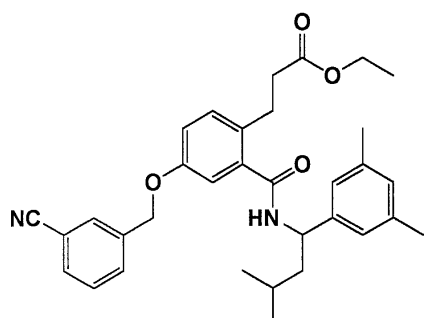
3-(2-((3- -1-(3,5-)))-4-)



TLC: Rf 0.26(n- : =4:1).

33(2)

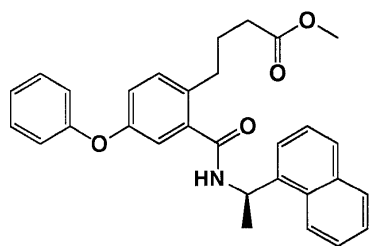
3-(2-((3- -1-(3,5-)))-4-(3-))



TLC: Rf 0.41(n- : =3:1).

33(3)

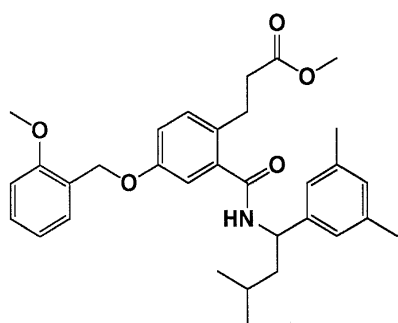
4-(2-((1R)-1-(-1-))-4-)



TLC: Rf 0.69(n- : =1:1).

33(4)

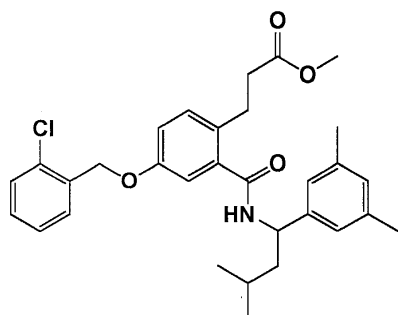
3-(2-((3- -1-(3,5-)))-4-(2-))



TLC: Rf 0.53(n- : =2:1).

33(5)

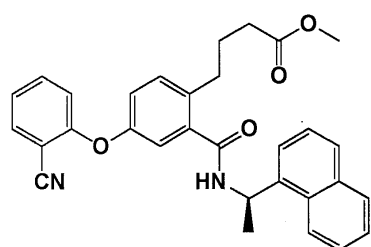
3-(2-((3- -1-(3,5-)))-4-(2-))



TLC: Rf 0.53(n- : =2:1).

33(6)

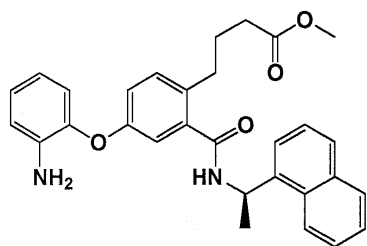
4-(2-((1R)-1-(-1-))-4-(2-))



TLC: Rf 0.47(n- : =1:1).

33(7)

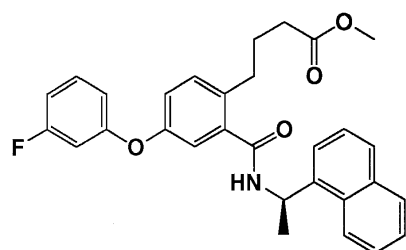
4-(2-(((1R)-1-() -1-))-4-(2-))



TLC: Rf 0.43(n- : =1:1).

33(8)

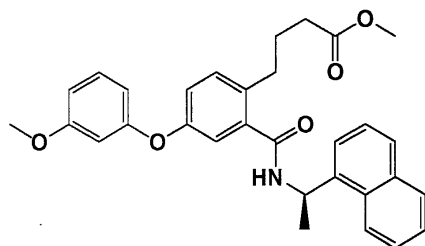
4-(2-(((1R)-1-() -1-))-4-(3-))



TLC: Rf 0.85(n- : =1:1).

33(9)

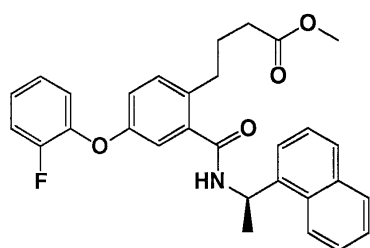
4-(2-(((1R)-1-() -1-))-4-(3-))



TLC: Rf 0.64(n- : =1:1).

33(10)

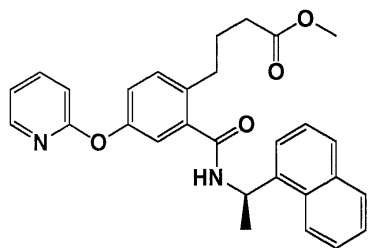
4-(2-(((1R)-1-() -1-))-4-(2-))



TLC: Rf 0.67(n- : =2:1).

33(11)

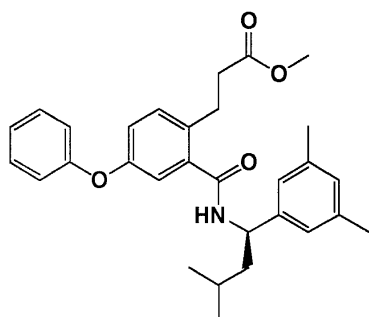
4-(2-((1R)-1-()))-4-(-2-))



TLC: Rf 0.34(n- : =1:1).

33(12)

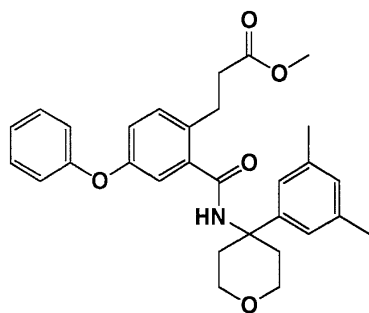
3-(2-((1R)-3- -1-(3,5-)))-4-



TLC: Rf 0.86(n- : =1:1).

33(13)

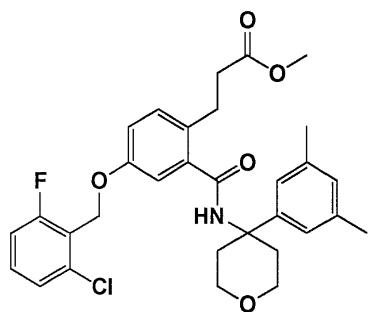
3-(2-((4-(3,5-)) -4-))-4-



TLC: Rf 0.36(n- : =2:1).

33(14)

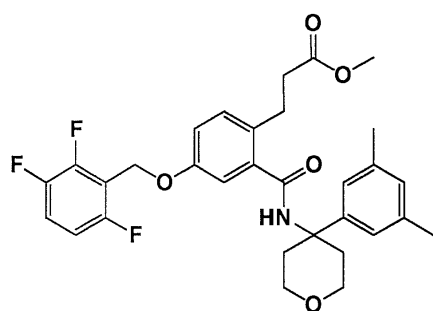
3-(2-((4-(3,5-)) -4-))-4-(2- -6-))



TLC: Rf 0.68(n- : =1:1).

33(15)

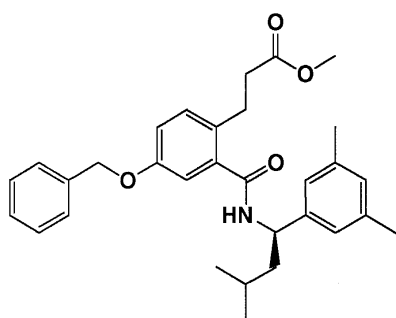
3-(2-((4-(3,5-



TLC: Rf 0.61(n- : =1:1).

33(16)

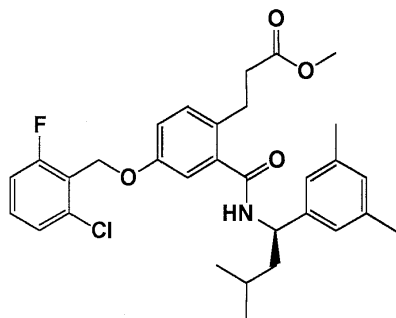
3-(2-(((1R)-3-



TLC: Rf 0.38(n- : =2:1).

33(17)

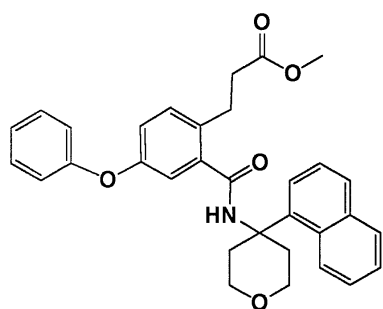
3-(2-(((1R)-3-



TLC: Rf 0.41(n- : =2:1).

33(18)

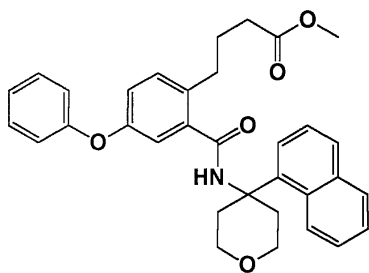
3-(2-((4-(-1-) -4-))-4-)



TLC: Rf 0.51(n- : =1:1).

33(19)

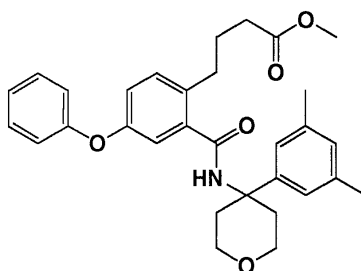
4-(2-((4-(-1-) -4-))-4-)



TLC: Rf 0.63(n- : =1:1).

33(20)

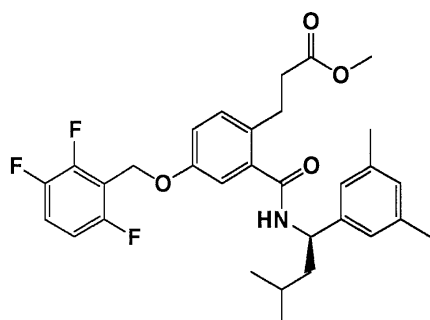
4-(2-((4-(3,5-) -4-))-4-)



TLC: Rf 0.71(n- : =1:1).

33(21)

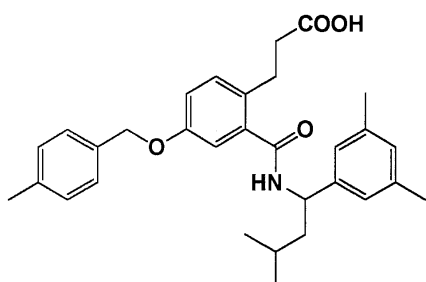
3-(2-(((1R)-3- -1-(3,5-))))-4-(2,3,6-))



TLC: Rf 0.53(n- : =2:1).

34

3-(2-(((3- -1-(3,5-))))-4-(4-)))



33

3

TLC: Rf 0.69(: =9:1);

NMR(300MHz, CDCl₃): 7.29(d, J=7.8Hz, 2H), 7.22-7.18(m, 3H), 6.98-6.88(m, 5H), 6.21(d, J=8.4Hz, 1H), 5.13(q, J=8.4Hz, 1H), 4.99(s, 2H), 3.00-2.90(m, 2H), 2.69(t, J=7.5Hz, 2H), 2.36(s, 3H), 2.30(s, 6H), 1.80-1.50(m, 3H), 0.97(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

34(1) 34(191)

33(1) 33(21)

48,

51,

54

34

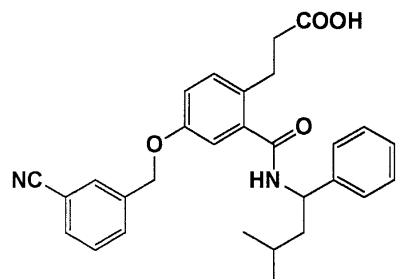
32

33

34

34(1)

3-(2-(((3- -1-)))-4-(3-))

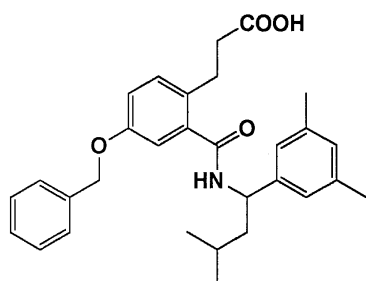


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 7.72(s, 1H), 7.66-7.60(m, 2H), 7.49(t, J=7.8Hz, 1H), 7.39-7.23(m, 5H), 7.17(d, J=8.1Hz, 1H), 6.97-6.89(m, 2H), 6.47(d, J=8.4Hz, 1H), 5.22(m, 1H), 5.05(s, 2H), 2.94(t, J=6.8Hz, 2H), 2.69(t, J=6.8Hz, 2H), 1.88-1.50(m, 3H), 0.98(d, J=6.6Hz, 6H).

34(2)

3-(2-((3- -1-(3,5-))))-4-

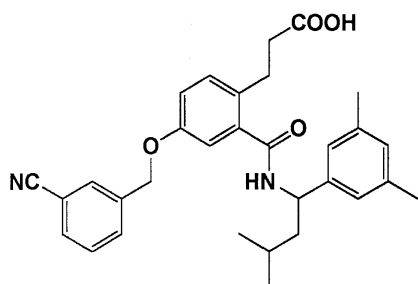


TLC: Rf 0.35(: =10:1);

NMR(300MHz, CDCl₃): 7.43-7.33(m, 5H), 7.17(m, 1H), 6.98-6.90(m, 5H), 6.24(d, J=8.4Hz, 1H), 5.14(m, 1H), 5.04(s, 2H), 2.99-2.92(m, 2H), 2.70(t, J=7.5Hz, 2H), 2.31(s, 6H), 1.80-1.53(m, 3H), 0.97(d, J=6.6Hz, 6H).

34(3)

3-(2-((3- -1-(3,5-))))-4-(3-

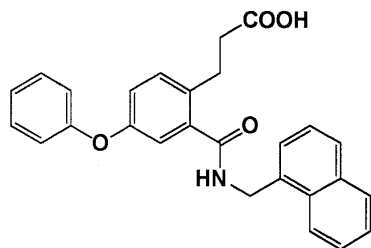


TLC: Rf 0.38(: =10:1);

NMR(300MHz, CDCl₃): 7.71(s, 1H), 7.62(d, J=7.8Hz, 1H), 7.61(s, 1H), 7.49(dd, J=7.8, 7.8Hz, 1H), 7.17(d, J=7.8Hz, 1H), 6.97-6.87(m, 5H), 6.40(d, J=8.4Hz, 1H), 5.15(m, 1H), 5.04(s, 2H), 2.98-2.91(m, 2H), 2.71-2.64(m, 2H), 2.30(s, 6H), 1.82-1.53(m, 3H), 0.97(d, J=6.6Hz, 6H).

34(4)

3-(2-(-1-)-4-

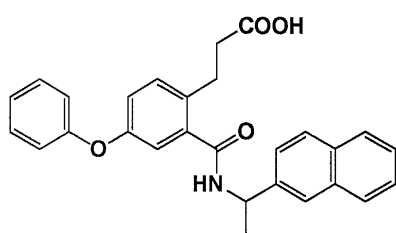


TLC: Rf 0.47(: =10:1);

NMR(300MHz, CDCl₃): 8.08(d, J=7.8Hz, 1H), 7.91-7.79(m, 2H), 7.58-7.39(m, 4H), 7.36-7.06(m, 5H), 7.02-6.90(m, 3H), 6.27(m, 1H), 5.06(d, J=5.4Hz, 2H), 3.06(t, J=7.5Hz, 2H), 2.77(t, J=7.5Hz, 2H).

34(5)

3-(2-(1-(-2-))-4-)

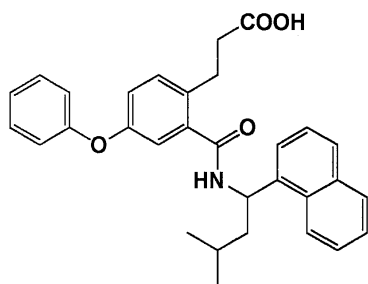


TLC: Rf 0.47(: =10:1);

NMR(300MHz, CDCl₃): 7.88-7.72(m, 4H), 7.52-6.92(m, 11H), 6.46(d, J=7.5Hz, 1H), 5.46(m, 1H), 3.03(t, J=7.5Hz, 2H), 2.75(t, J=7.5Hz, 2H), 1.67(d, J=6.6Hz, 3H).

34(6)

3-(2-((3- -1-(-1-)))-4-)

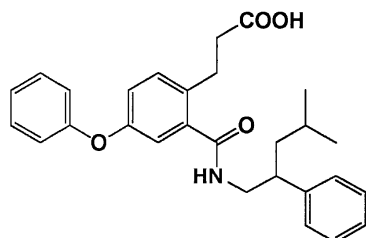


TLC: Rf 0.48(: =10:1);

NMR(300MHz, CDCl₃): 8.29(d, J=8.4Hz, 1H), 7.86(d, J=7.5Hz, 1H), 7.78(d, J=7.5Hz, 1H), 7.62-7.28(m, 6H), 7.22-7.07(m, 2H), 7.02-6.90(m, 4H), 6.27(d, J=8.7Hz, 1H), 6.10(m, 1H), 2.99(t, J=7.5Hz, 2H), 2.71(t, J=7.5Hz, 2H), 1.97-1.90(m, 2H), 1.78(m, 1H), 1.11(d, J=6.6Hz, 3H), 0.99(d, J=6.6Hz, 3H).

34(7)

3-(2-(4- -2-))-4-)

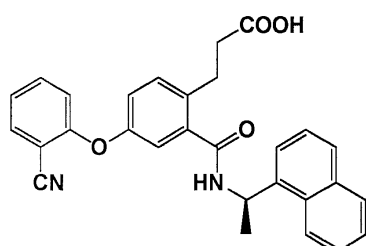


TLC: Rf 0.47(: =9:1);

NMR(300MHz, CDCl₃): 7.35(t, J=7.5Hz, 2H), 7.30-7.10(m, 7H), 7.00-6.90(m, 3H), 6.73(d, J=2.7Hz, 1H), 5.85-5.80(m, 1H), 3.86-3.76(m, 1H), 3.40-3.28(m, 1H), 3.02-2.84(m, 3H), 2.67(t, J=7.8Hz, 2H), 1.65-1.35(m, 3H), 0.86(d, J=6.3Hz, 3H), 0.84(d, J=6.3Hz, 3H).

34(8)

3-(2-((1R)-1-()-4-(2-))

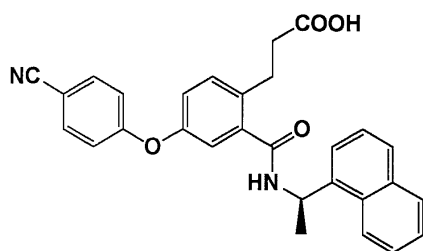


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 8.19(d, J=8.1Hz, 1H), 7.87(d, J=8.1Hz, 1H), 7.81(d, J=8.1Hz, 1H), 7.68-7.42(m, 6H), 7.28(m, 1H), 7.18-6.98(m, 3H), 6.84(d, J=8.4Hz, 1H), 6.40(d, J=7.8Hz, 1H), 6.12(m, 1H), 3.08(t, J=7.5Hz, 2H), 2.77(t, J=7.5Hz, 2H), 1.79(d, J=6.6Hz, 3H).

34(9)

3-(2-((1R)-1-()-4-(4-))

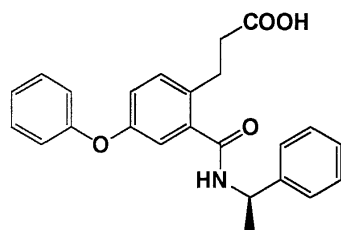


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 8.17(d, J=8.1Hz, 1H), 7.87(m, 1H), 7.81(d, J=8.1Hz, 1H), 7.60-7.41(m, 6H), 7.28(m, 1H), 7.04-6.90(m, 4H), 6.35(d, J=8.4Hz, 1H), 6.11(m, 1H), 3.13-3.02(t, J=7.5Hz, 2H), 2.75(t, J=7.5Hz, 2H), 1.79(d, J=6.6Hz, 3H).

34(10)

3-(2-((1R)-1-()-4-()

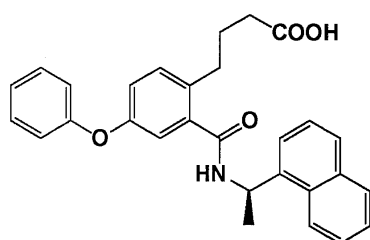


TLC: Rf 0.47(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.23(m, 7H), 7.20(d, J=8.4Hz, 1H), 7.12(t, J=7.2Hz, 1H), 7.05(d, J=2.4Hz, 1H), 7.02-6.92(m, 3H), 6.39(d, J=7.5Hz, 1H), 5.28(q, J=7.5Hz, 1H), 3.01(t, J=7.5Hz, 2H), 2.73(t, J=7.5Hz, 2H), 1.57(d, J=6.9Hz, 3H).

34(11)

4-(2-((1R)-1-()-1-))-4-)

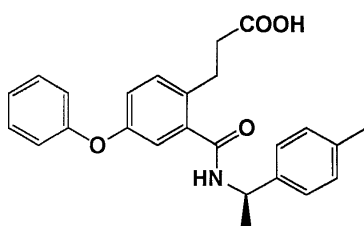


TLC: Rf 0.64(: =9:1);

NMR(300MHz, CDCl₃): 8.19(d, J=7.8Hz, 1H), 7.86(d, J=7.5Hz, 1H), 7.80(d, J=8.1Hz, 1H), 7.58-7.40(m, 4H), 7.31(t, J=7.5Hz, 2H), 7.20-7.06(m, 2H), 6.98-6.88(m, 4H), 6.15-6.05(m, 1H), 6.01(d, J=8.1Hz, 1H), 2.85-2.70(m, 2H), 2.40-2.20(m, 2H), 2.00-1.80(m, 2H), 1.76(d, J=6.3Hz, 3H).

34(12)

3-(2-((1R)-1-(4-))-4-)

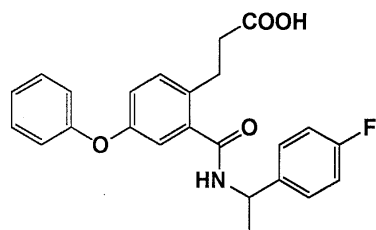


TLC: Rf 0.24(n- : =1:1);

NMR(300MHz, CDCl₃): 7.37-7.31(m, 2H), 7.26-7.10(m, 6H), 7.04(d, J=2.1Hz, 1H), 7.00-6.93(m, 3H), 6.29(brd, J=5.4Hz, 1H), 5.25(m, 1H), 3.05-3.00(m, 2H), 2.77-2.72(m, 2H), 2.33(s, 3H), 1.56(d, J=6.6Hz, 3H).

34(13)

3-(2-(1-(4-))-4-)

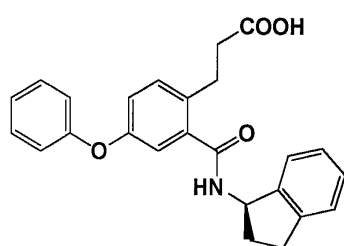


TLC: Rf 0.62(: =9:1);

NMR(300MHz, CDCl₃): 7.38-7.30(m, 4H), 7.20(d, J=8.4Hz, 1H), 7.12(t, J=7.5Hz, 1H), 7.05-6.93(m, 6H), 6.40(d, J=7.5Hz, 1H), 5.30-5.20(m, 1H), 3.00(t, J=7.5Hz, 2H), 2.72(t, J=7.5Hz, 2H), 1.55(d, J=6.9Hz, 3H).

34(14)

3-(2-((1R)-1- -1-) -4-)

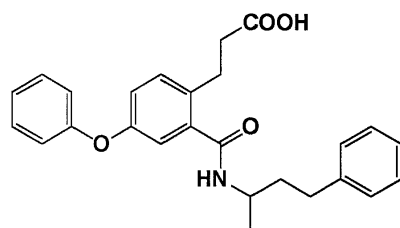


TLC: Rf 0.59(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.30(m, 3H), 7.30-7.20(m, 4H), 7.15-7.05(m, 2H), 7.03-6.94(m, 3H), 6.27(d, J=8.7Hz, 1H), 5.64(q, J=7.5Hz, 1H), 3.10(t, J=7.5Hz, 2H), 3.06-2.84(m, 2H), 2.80(t, J=7.5Hz, 2H), 2.76-2.62(m, 1H), 2.00-1.80(m, 1H).

34(15)

3-(2-(1- -3-) -4-)

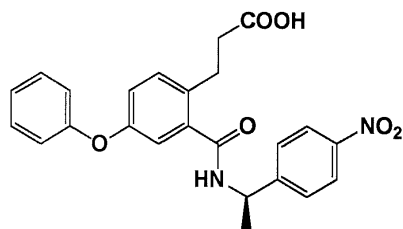


TLC: Rf 0.54(: =10:1);

NMR(300MHz, CDCl₃): 7.40-6.94(m, 13H), 5.92(d, J=8.4Hz, 1H), 4.22(m, 1H), 3.05(t, J=7.5Hz, 2H), 2.81(t, J=7.5Hz, 2H), 2.70(t, J=7.8Hz, 2H), 1.93-1.78(m, 2H), 1.27(d, J=6.6Hz, 3H).

34(16)

3-(2-((1R)-1-(4-))-4-)

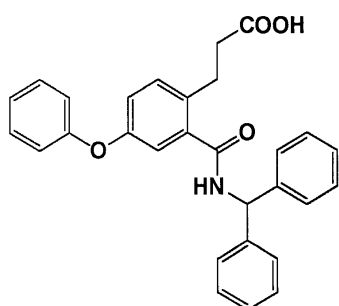


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 8.19(d, J=7.8Hz, 2H), 7.53(d, J=7.8Hz, 2H), 7.40-6.94(m, 8H), 6.66(d, J=7.2Hz, 1H), 5.33(m, 1H), 2.99(t, J=7.2Hz, 2H), 2.73(t, J=7.2Hz, 2H), 1.59(d, J=7.2Hz, 3H).

34(17)

3-(2- -4-)

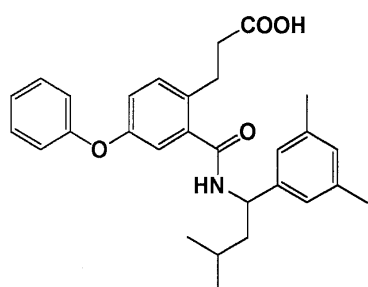


TLC: Rf 0.55(: =10:1);

NMR(300MHz, CDCl₃): 7.44-6.93(m, 18H), 6.71(d, J=8.1Hz, 1H), 6.42(d, J=8.1Hz, 1H), 3.02(t, J=7.2Hz, 2H), 2.72(t, J=7.2Hz, 2H).

34(18)

3-(2-((3- -1-(3,5-))) -4-)

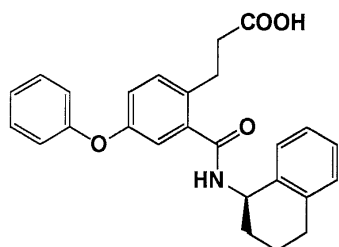


TLC: Rf 0.57(: =10:1);

NMR(300MHz, CDCl₃): 7.39-7.09(m, 5H), 7.05-6.87(m, 6H), 6.21(d, J=8.4Hz, 1H), 5.13(m, 1H), 3.06-2.92(m, 2H), 2.72(t, J=7.8Hz, 2H), 2.29(s, 6H), 1.81-1.50(m, 3H), 0.97(d, J=6.3Hz, 3H), 0.96(d, J=6.3Hz, 3H).

34(19)

3-(2-((1R)-1,2,3,4- -1-) -4-)

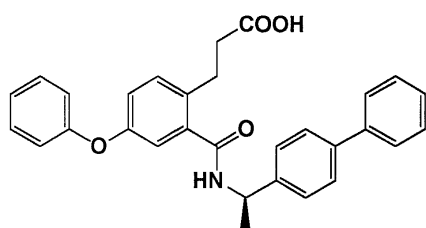


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 7.38-6.92(m, 12H), 6.25(d, J=8.4Hz, 1H), 5.35(m, 1H), 3.10(t, J=7.2Hz, 2H), 2.90-2.71(m, 4H), 2.14(m, 1H), 2.01-1.78(m, 3H).

34(20)

3-(2-((1R)-1-(1,1'-4-))-4-)

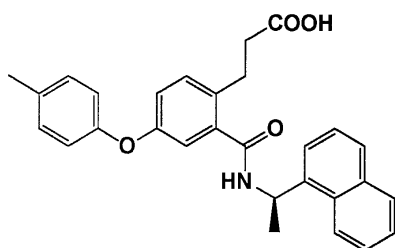


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 7.65-6.92(m, 17H), 6.40(d, J=8.1Hz, 1H), 5.33(m, 1H), 3.03(t, J=7.2Hz, 2H), 2.80-2.70(m, 2H), 1.61(d, J=6.9Hz, 3H).

34(21)

3-(2-((1R)-1-(-1-))-4-(4-))

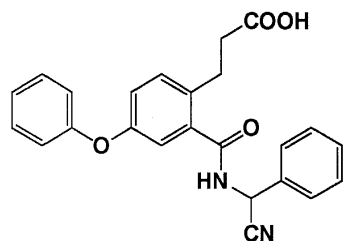


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.17(d, J=7.8Hz, 1H), 7.90-7.77(m, 2H), 7.59-7.41(m, 4H), 7.21-7.07(m, 3H), 6.98-6.80(m, 4H), 6.29(d, J=8.1Hz, 1H), 6.10(m, 1H), 3.04(t, J=7.2Hz, 2H), 2.75(t, J=7.2Hz, 2H), 2.33(s, 3H), 1.78(d, J=6.9Hz, 3H).

34(22)

3-(2-(-)-4-)

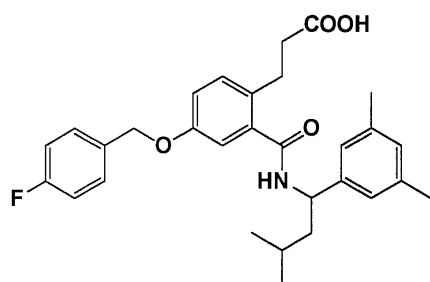


TLC: Rf 0.62(: =9:1);

NMR(300MHz, CD₃OD): 7.58-7.54(m, 2H), 7.48-7.28(m, 6H), 7.13(t, J=7.5Hz, 1H), 7.03-6.97(m, 4H), 6.29(s, 1H), 2.97(t, J=7.2Hz, 2H), 2.57(t, J=7.2Hz, 2H).

34(23)

3-(2-((3- -1-(3,5-))))-4-(4-))

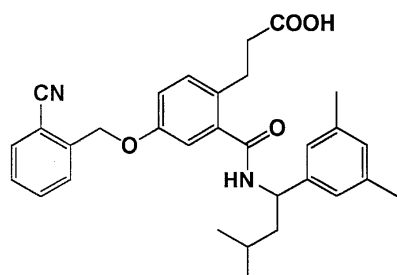


TLC: Rf 0.61(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.32(m, 2H), 7.18-7.12(m, 1H), 7.10-7.02(m, 2H), 6.96-6.88(m, 5H), 6.27(d, J=8.4Hz, 1H), 5.14(q, J=8.4Hz, 1H), 4.98(s, 2H), 3.00-2.90(m, 2H), 2.75-2.65(m, 2H), 2.30(s, 6H), 1.80-1.50(m, 3H), 0.97(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

34(24)

3-(2-((3- -1-(3,5-))))-4-(2-))

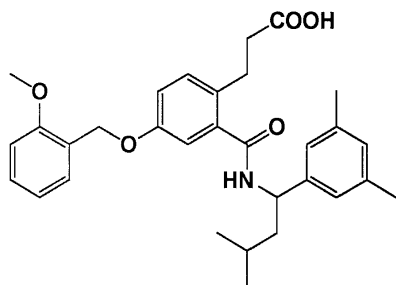


TLC: Rf 0.63(: =9:1);

NMR(300MHz, CDCl₃): 7.70(d, J=7.5Hz, 1H), 7.63(dd, J=4.8, 1.2Hz, 2H), 7.50-7.40(m, 1H), 7.18(d, J=8.7 Hz, 1H), 7.02-6.94(m, 4H), 6.90(s, 1H), 6.36(d, J=8.4Hz, 1H), 5.23(s, 2H), 5.15(q, J=8.4Hz, 1H), 3.00-2.90(m, 2H), 2.75-2.65(m, 2H), 2.30(s, 6H), 1.85-1.50(m, 3H), 0.98(d, J=6.6Hz, 6H).

34(25)

3-(2-((3- -1-(3,5-))))-4-(2-))

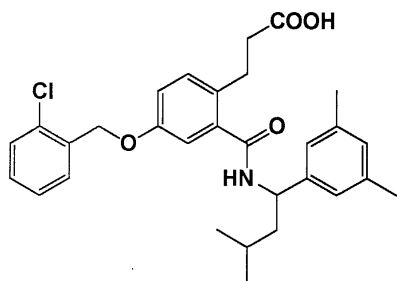


TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 7.40(d, J=7.2Hz, 1H), 7.31(m, 1H), 7.17(m, 1H), 7.04-6.87(m, 7H), 6.22(d, J=8.4 Hz, 1H), 5.14(m, 1H), 5.08(s, 2H), 3.84(s, 3H), 3.02-2.90(m, 2H), 2.71(t, J=7.5Hz, 2H), 2.31(s, 6H), 1.83-1.52(m, 3H), 0.97(d, J=6.0Hz, 6H).

34(26)

3-(2-((3- -1-(3,5-))))-4-(2-))

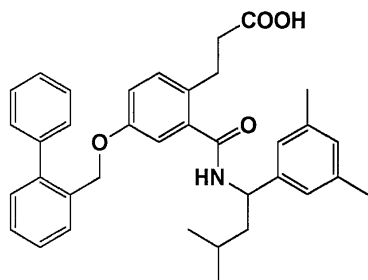


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.51(m, 1H), 7.40(m, 1H), 7.33-7.23(m, 2H), 7.18(m, 1H), 7.00-6.87(m, 5H), 6.23(d, J=8.7Hz, 1H), 5.20-5.10(m, 1H), 5.15(s, 2H), 3.02-2.89(m, 2H), 2.70(t, J=7.5Hz, 2H), 2.31(s, 6H), 1.83-1.52(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(27)

3-(2-((3- -1-(3,5-))))-4-(2-))

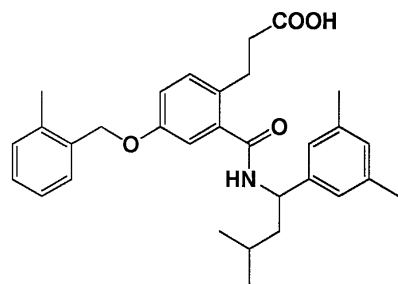


TLC: Rf 0.55(: =10:1);

NMR(300MHz, CDCl₃): 7.56(m, 1H), 7.44-7.30(m, 8H), 7.11(d, J=8.1Hz, 1H), 6.95-6.77(m, 5H), 6.17(d, J=8.4Hz, 1H), 5.13(m, 1H), 4.91(s, 2H), 2.99-2.87(m, 2H), 2.68(t, J=7.5Hz, 2H), 2.30(s, 6H), 1.83-1.50(m, 3H), 0.97(d, J=6.3Hz, 6H).

34(28)

3-(2-((3- -1-(3,5-))))-4-(2-))

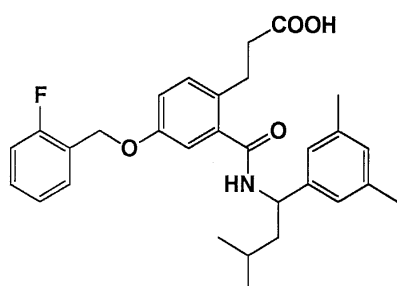


TLC: Rf 0.57(: =10:1);

NMR(300MHz, CDCl₃): 7.36(d, J=7.2Hz, 1H), 7.30-7.14(m, 4H), 7.01-6.88(m, 5H), 6.24(d, J=8.4Hz, 1H), 5.15(m, 1H), 5.01(s, 2H), 3.02-2.90(m, 2H), 2.68(t, J=7.5Hz, 2H), 2.36(s, 3H), 2.30(s, 6H), 1.83-1.53(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(29)

3-(2-((3- -1-(3,5-))))-4-(2-))

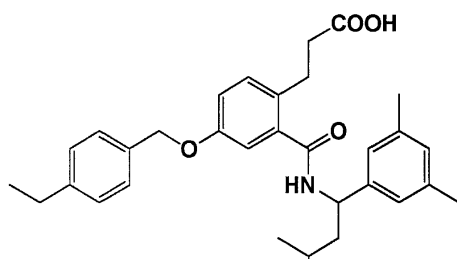


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.50-7.42(m, 1H), 7.38-7.28(m, 1H), 7.23-7.04(m, 3H), 7.02-6.88(m, 5H), 6.24(d, J=8.7Hz, 1H), 5.20-5.08(m, 1H), 5.11(s, 2H), 3.02-2.90(m, 2H), 2.72(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(30)

3-(2-((3- -1-(3,5-))))-4-(4-))

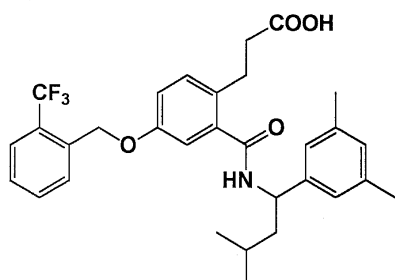


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.32(d, J=7.8Hz, 2H), 7.25-7.14(m, 3H), 7.00-6.88(m, 5H), 6.23(d, J=8.1Hz, 1H), 5.20-5.10(m, 1H), 5.00(s, 2H), 3.02-2.90(m, 2H), 2.75-2.60(m, 4H), 2.31(s, 6H), 1.82-1.50(m, 3H), 1.24(t, J=7.5Hz, 3H), 0.98(d, J=6.3Hz, 6H).

34(31)

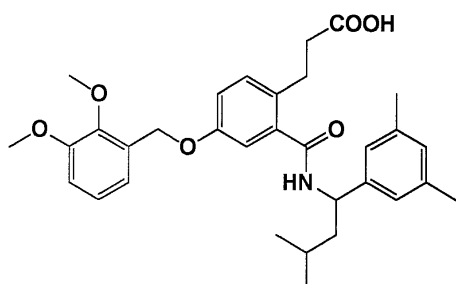
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.50(: =9:1).

34(32)

3-(2-((3- -1-(3,5-))))-4-(2,3-

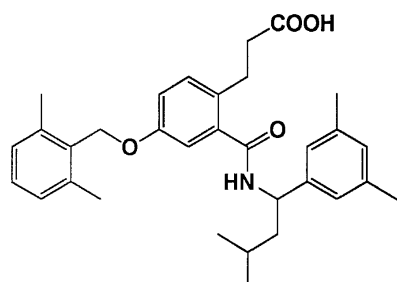


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.17(d, J=7.8Hz, 1H), 7.12-6.88(m, 8H), 6.27(d, J=8.7Hz, 1H), 5.20-5.08(m, 1H), 5.09 (s, 2H), 3.88(s, 3H), 3.86(s, 3H), 3.02-2.90(m, 2H), 2.71(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=6.6Hz, 6H).

34(33)

3-(2-((3- -1-(3,5-))))-4-(2,6-

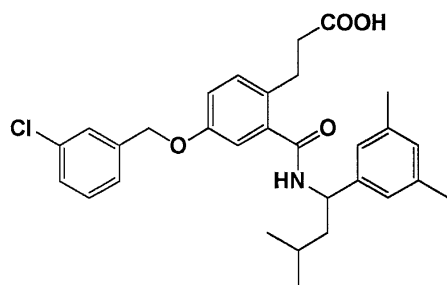


TLC: Rf 0.54(: =10:1);

NMR(300MHz, CDCl₃): 7.28-7.13(m, 3H), 7.12-6.95(m, 3H), 6.94(s, 2H), 6.90(s, 1H), 6.29(d, J=8.7Hz, 1 H), 5.15(m, 1H), 5.01(s, 2H), 3.03-2.92(m, 2H), 2.72(t, J=6.9Hz, 2H), 2.38(s, 6H), 2.30(s, 6H), 1.82-1.55(m, 3H), 0.97(d, J=6.3Hz, 6H).

34(34)

3-(2-((3- -1-(3,5-))))-4-(3-

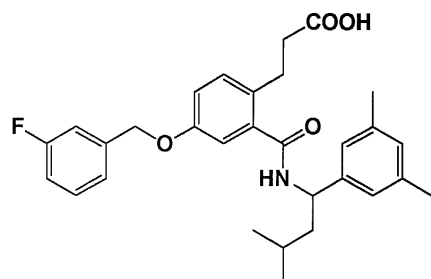


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.42(s, 1H), 7.34-7.22(m, 3H), 7.21-7.14(m, 1H), 6.97-6.88(m, 5H), 6.26(d, J=8.1Hz, 1H), 5.20-5.10(m, 1H), 5.01 (s, 2H), 3.00-2.93(m, 2H), 2.71(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(35)

3-(2-((3- -1-(3,5-))))-4-(3-))

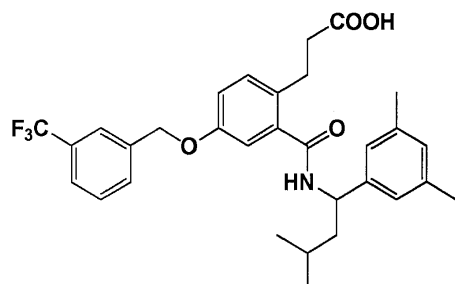


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.40-7.30(m, 1H), 7.21-7.10(m, 3H), 7.07-6.98(m, 1H), 6.98-6.89(m, 5H), 6.26(d, J=8.7Hz, 1H), 5.20-5.08(m, 1H), 5.04 (s, 2H), 3.00-2.90(m, 2H), 2.71(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(36)

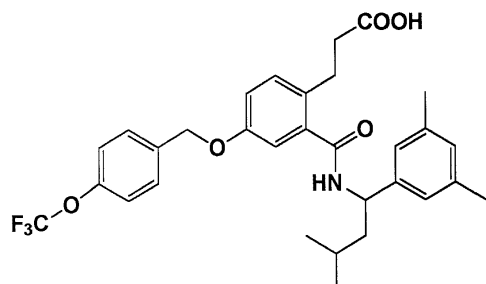
3-(2-((3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.50(: =9:1).

34(37)

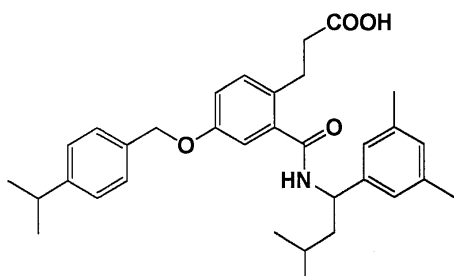
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.50(: =9:1).

34(38)

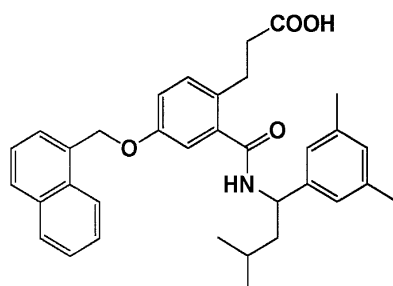
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.50(: =9:1).

34(39)

3-(2-((3- -1-(3,5-))))-4-(-1-))

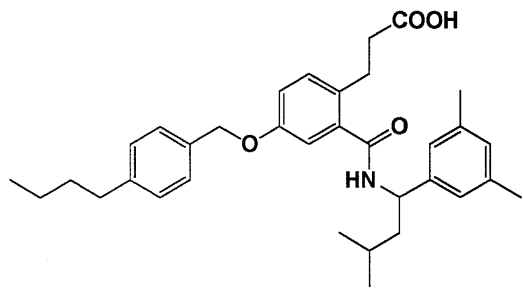


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 8.05-7.98(m, 1H), 7.94-7.84(m, 2H), 7.60-7.40(m, 4H), 7.22(d, J=8.1Hz, 1H), 7.10-7.00(m, 2H), 6.96-6.88(m, 3H), 6.26(d, J=8.1Hz, 1H), 5.47(s, 2H), 5.20-5.10(m, 1H), 3.05-2.90(m, 2H), 2.73(t, J=7.2Hz, 2H), 2.30(s, 6H), 1.84-1.50(m, 3H), 0.97(d, J=6.3Hz, 3H), 0.96(d, J=6.3Hz, 3H).

34(40)

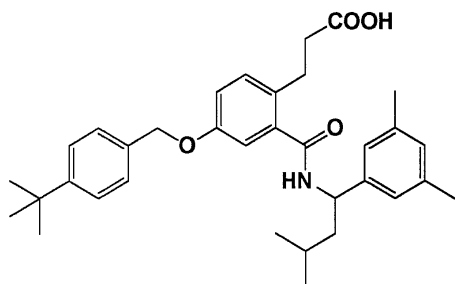
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.50(: =9:1).

34(41)

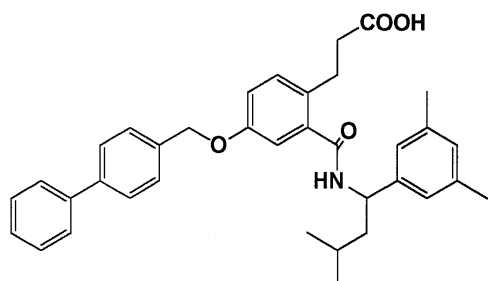
3-(2-((3- -1-(3,5-))))-4-(4-t-))



TLC: Rf 0.50(: =9:1).

34(42)

3-(2-((3- -1-(3,5-))))-4-(4-))

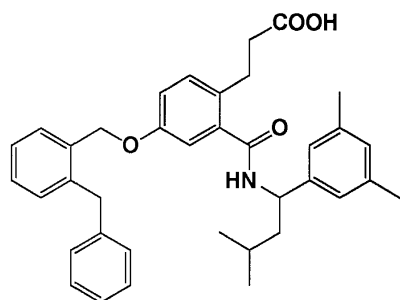


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.65-7.55(m, 4H), 7.55-7.32(m, 5H), 7.23-7.15(m, 1H), 7.06-6.86(m, 5H), 6.24(d, J=8.4Hz, 1H), 5.20-5.08(m, 1H), 5.08(s, 2H), 3.03-2.92(m, 2H), 2.72(t, J=6.9Hz, 2H), 2.30(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=5.4Hz, 6H).

34(43)

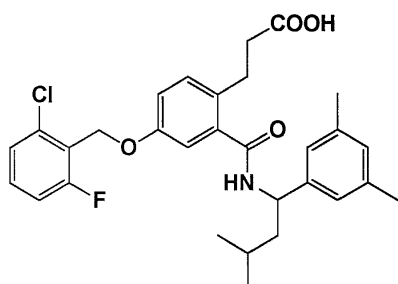
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.50(: =9:1).

34(44)

3-(2-((3- -1-(3,5-)))-4-(2- -6-)))

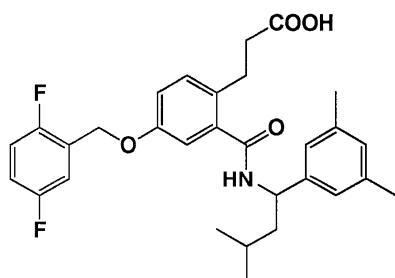


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.36-7.18(m, 3H), 7.10-6.88(m, 6H), 6.27(d, J=8.7Hz, 1H), 5.20-5.10(m, 3H), 3.02-2.94(m, 2H), 2.73(t, J=6.9Hz, 2H), 2.31(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=6.0Hz, 6H).

34(45)

3-(2-((3- -1-(3,5-)))-4-(2,5-)))

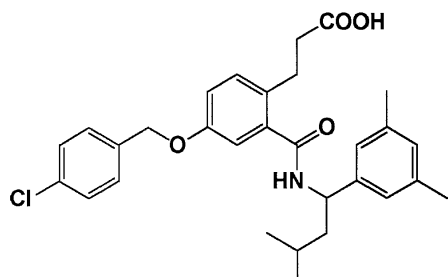


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.25-7.16(m, 2H), 7.10-6.90(m, 7H), 6.28(d, J=8.1Hz, 1H), 5.20-5.10(m, 1H), 5.09(s, 2H), 3.05-2.90(m, 2H), 2.72(t, J=7.5Hz, 2H), 2.31(s, 6H), 1.84-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(46)

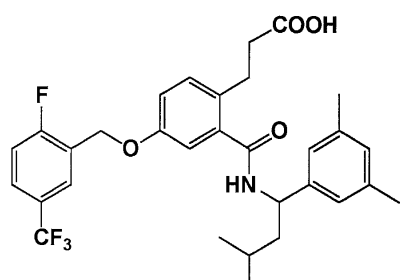
3-(2-((3- -1-(3,5-)))-4-(4-)))



TLC: Rf 0.50(: =9:1).

34(47)

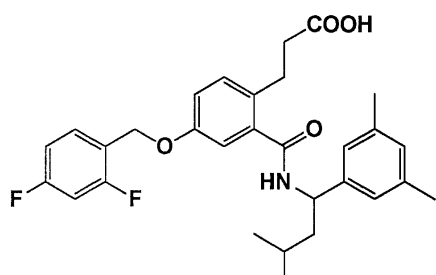
3-(2-((3- -1-(3,5-))))-4-(2- -5-))



TLC: Rf 0.50(: =9:1).

34(48)

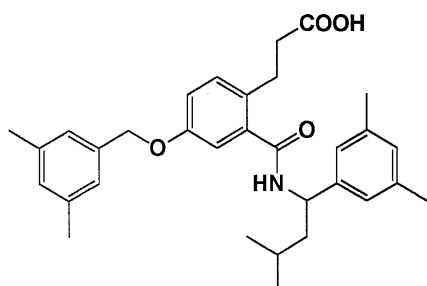
3-(2-((3- -1-(3,5-))))-4-(2,4-))



TLC: Rf 0.50(: =9:1).

34(49)

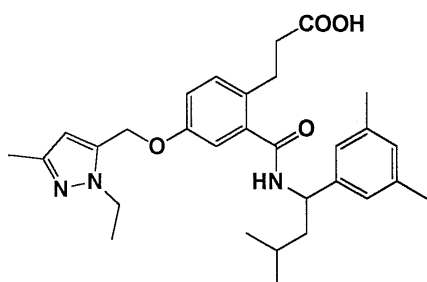
3-(2-((3- -1-(3,5-))))-4-(3,5-))



TLC: Rf 0.50(: =9:1).

34(50)

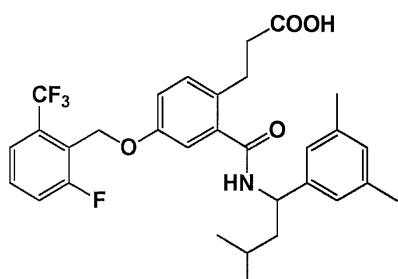
3-(2-((3- -1-(3,5-))))-4-(1- -3- -5-))



TLC: Rf 0.33(n- : =1:1).

34(51)

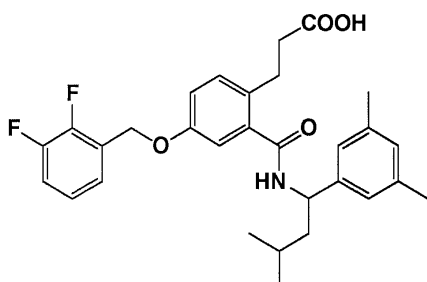
3-(2-((3- -1-(3,5-))))-4-(2- -6-))



TLC: Rf 0.57(n- : =1:1).

34(52)

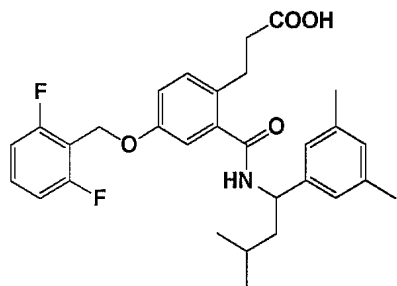
3-(2-((3- -1-(3,5-))))-4-(2,3-))



TLC: Rf 0.57(n- : =1:1).

34(53)

3-(2-((3- -1-(3,5-))))-4-(2,6-))

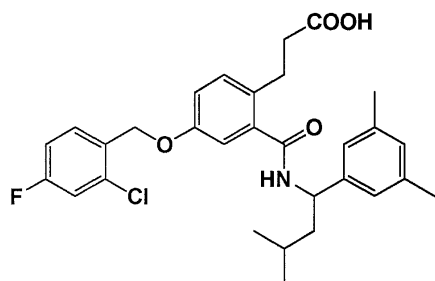


TLC: Rf 0.57(n- : =1:1);

NMR(300MHz, CDCl₃ + CD₃OD): 7.34(m, 1H), 7.19(d, J=8.4Hz, 1H), 7.03-6.85(m, 7H), 6.28(d, J=8.4Hz, 1H), 5.15(m, 1H), 5.11(s, 2H), 3.11-2.88(m, 2H), 2.69(t, J=7.1Hz, 2H), 2.30(s, 6H), 1.86-1.52(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(54)

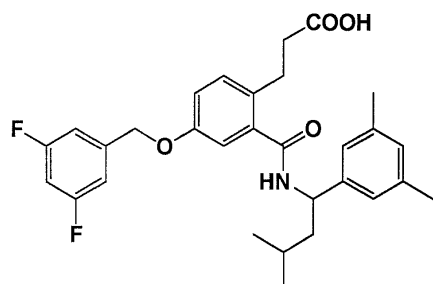
3-(2-((3- -1-(3,5-))))-4-(2- -4-))



TLC: Rf 0.60(n- : =1:1).

34(55)

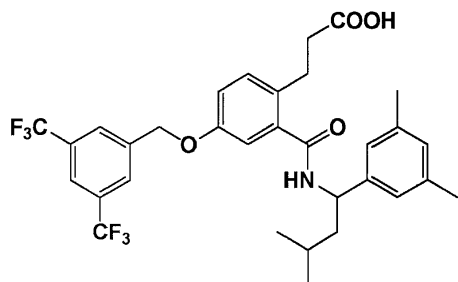
3-(2-((3- -1-(3,5-))))-4-(3,5-))



TLC: Rf 0.55(n- : =1:1).

34(56)

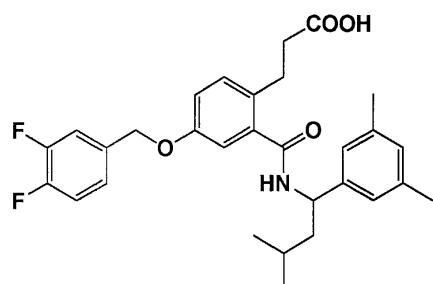
3-(2-((3- -1-(3,5-))))-4-(3,5- ()))



TLC: Rf 0.59(n- : =1:1).

34(57)

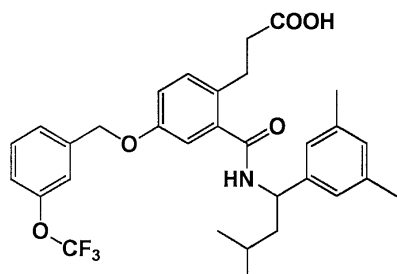
3-(2-((3- -1-(3,5-))))-4-(3,4-



TLC: Rf 0.60(n- : =1:1).

34(58)

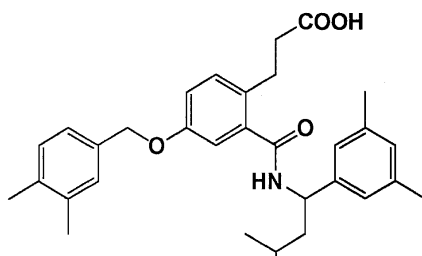
3-(2-((3- -1-(3,5-))))-4-(3-



TLC: Rf 0.57(n- : =1:1).

34(59)

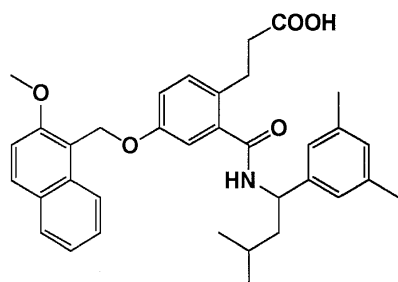
3-(2-((3- -1-(3,5-))))-4-(3,4-



TLC: Rf 0.55(n- : =1:1).

34(60)

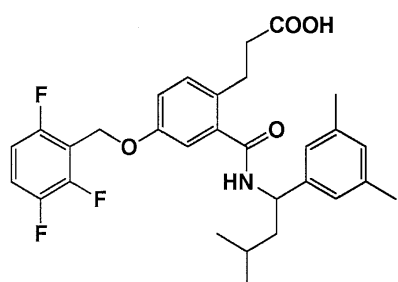
3-(2-((3- -1-(3,5-))))-4-(2- -1-))



TLC: Rf 0.50(: =9:1).

34(61)

3-(2-((3- -1-(3,5-))))-4-(2,3,6-))

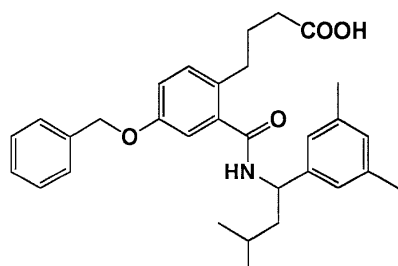


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 7.26-7.12(m, 2H), 7.02-6.84(m, 6H), 6.29(d, J=8.7Hz, 1H), 5.20-5.10(m, 1H), 5.11(s, 2H), 3.00-2.92(m, 2H), 2.70(t, J=7.2Hz, 2H), 2.31(s, 6H), 1.84-1.54(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(62)

4-(2-((3- -1-(3,5-))))-4-)



TLC: Rf 0.54(: =9:1);

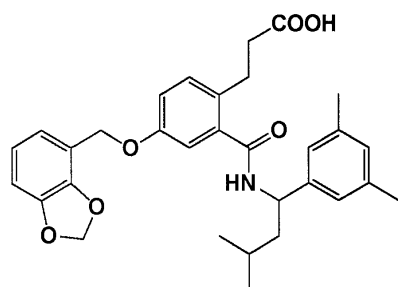
NMR(300MHz, CDCl₃): 7.45-7.28(m, 5H), 7.12(d, J=8.1Hz, 1H), 6.99-6.86(m, 5H), 5.89(d, J=8.4Hz, 1H), 5.14(m, 1H), 5.04(s, 2H), 2.68(t, J=7.5Hz, 2H), 2.31(s, 6H), 2.26(t, J=7.2Hz, 2H), 1.96-1.48(m, 5H), 0.98(d, J=4.8Hz, 6H).

34(63)

4-(2-((1R)-1-(-1-)))-4-(4-))

34(67)

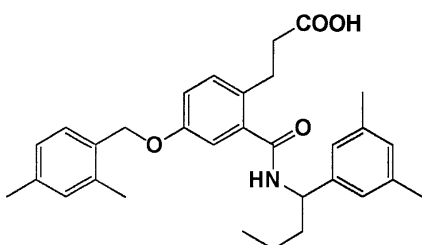
3-(2-((3- -1-(3,5-))) -4-(1,3- -4-)))



TLC: Rf 0.55(: =10:1).

34(68)

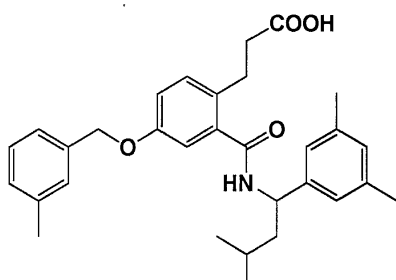
3-(2-((3- -1-(3,5-))) -4-(2,4-)))



TLC: Rf 0.55(: =10:1).

34(69)

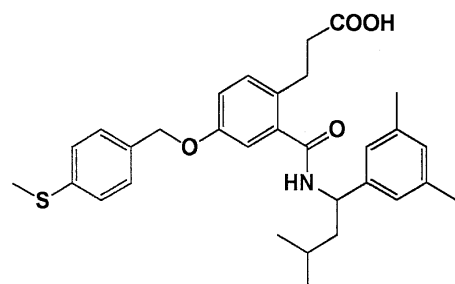
3-(2-((3- -1-(3,5-))) -4-(3-)))



TLC: Rf 0.52(: =10:1).

34(70)

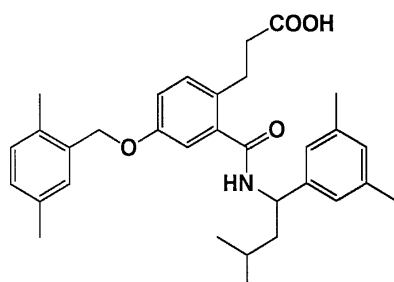
3-(2-((3- -1-(3,5-))) -4-(4-)))



TLC: Rf 0.55(: =10:1).

34(71)

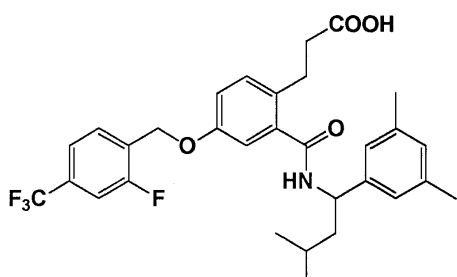
3-(2-((3- -1-(3,5-))))-4-(2,5-))



TLC: Rf 0.53(: =10:1).

34(72)

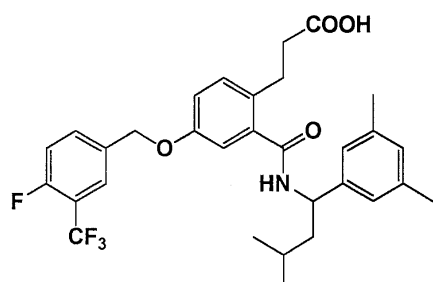
3-(2-((3- -1-(3,5-))))-4-(2- -4-))



TLC: Rf 0.50(: =9:1).

34(73)

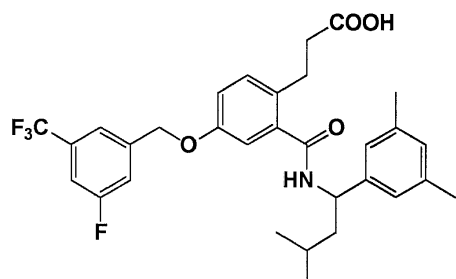
3-(2-((3- -1-(3,5-))))-4-(4- -3-))



TLC: Rf 0.50(: =9:1).

34(74)

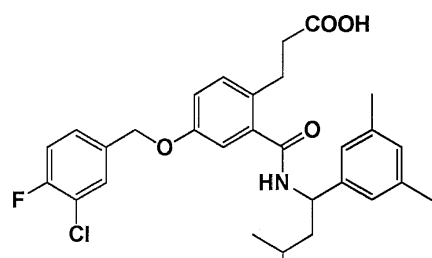
3-(2-((3- -1-(3,5-))))-4-(3- -5-))



TLC: Rf 0.50(: =9:1).

34(75)

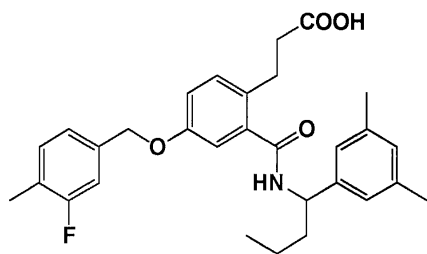
3-(2-((3- -1-(3,5-))))-4-(4- -3-))



TLC: Rf 0.50(: =9:1).

34(76)

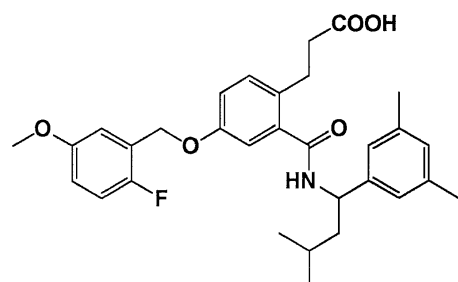
3-(2-((3- -1-(3,5-))))-4-(3- -4-))



TLC: Rf 0.50(: =9:1).

34(77)

3-(2-((3- -1-(3,5-))))-4-(2- -5-))



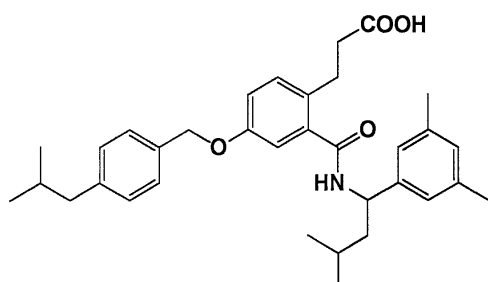
TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 7.19(m, 1H), 7.04-6.89(m, 7H), 6.82(m, 1H), 6.26(d, J=8.7Hz, 1H), 5.15(m, 1H), 5.07(s, 2H), 3.78(s, 3H), 3.00-2.92(m, 2H), 2.70(t, J=7.4Hz, 2H), 2.31(s, 6H), 1.83-1.50(m, 3H), 0.98(d, J=6.0

Hz, 6H).

34(78)

3-(2-((3- -1-(3,5-))))-4-(4-))

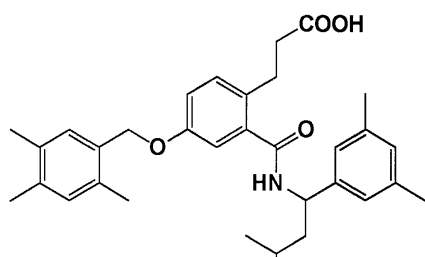


TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 7.31(d, J=8.1Hz, 2H), 7.20-7.13(m, 3H), 6.99-6.88(m, 5H), 6.22(d, J=8.4Hz, 1H), 5.14(m, 1H), 5.00(s, 2H), 3.00-2.91(m, 2H), 2.70(t, J=7.5Hz, 2H), 2.48(d, J=7.2Hz, 2H), 2.30(s, 6H), 1.93-1.52(m, 4H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H), 0.91(d, J=6.6Hz, 6H).

34(79)

3-(2-((3- -1-(3,5-))))-4-(2,4,5-))

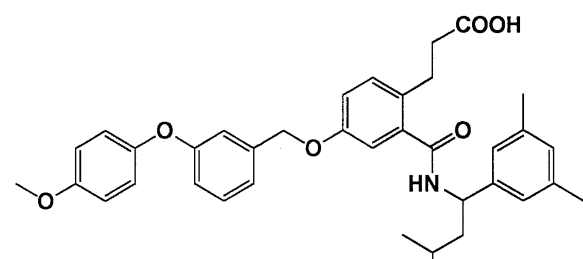


TLC: Rf 0.60(: =9:1);

NMR(300MHz, CDCl₃): 7.18(d, J=9.0Hz, 1H), 7.12(s, 1H), 7.02-6.88(m, 6H), 6.25(d, J=8.4Hz, 1H), 5.14(m, 1H), 4.93(s, 2H), 3.03-2.90(m, 2H), 2.70(t, J=7.5Hz, 2H), 2.30(s, 6H), 2.29(s, 3H), 2.23(s, 6H), 1.83-1.52(m, 3H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

34(80)

3-(2-((3- -1-(3,5-))))-4-(3-(4-)))

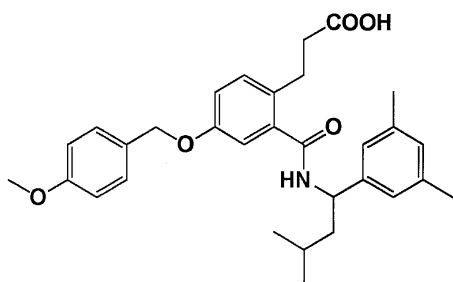


TLC: Rf 0.62(: =9:1);

NMR(300MHz, CDCl₃): 7.30(t, J=7.9Hz, 1H), 7.16(d, J=8.0Hz, 1H), 7.07(d, J=8.0Hz, 1H), 7.02-6.84(m, 1H), 6.24(d, J=8.7Hz, 1H), 5.14(m, 1H), 4.99(s, 2H), 3.80(s, 3H), 3.00-2.89(m, 2H), 2.69(t, J=7.5Hz, 2H), 2.30(s, 6H), 1.83-1.50(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(81)

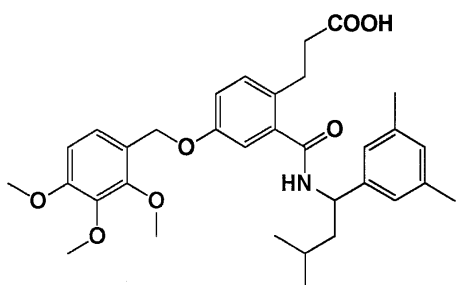
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.50(: =9:1).

34(82)

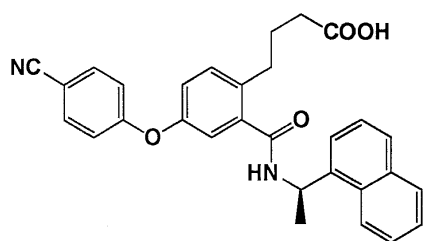
3-(2-((3- -1-(3,5-))))-4-(2,3,4-))



TLC: Rf 0.50(: =9:1).

34(83)

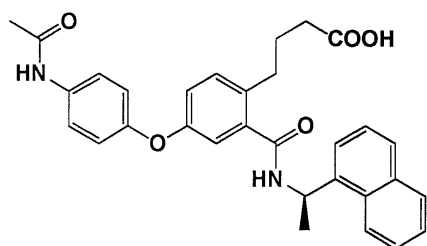
4-(2-(((1R)-1-(-1-)))-4-(4-))



TLC: Rf 0.42(: =10:1).

34(84)

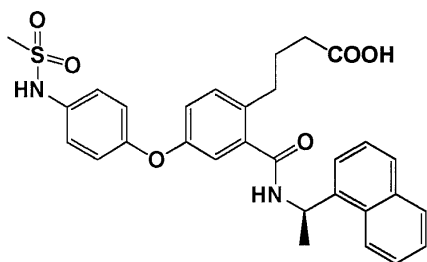
4-(2-(((1R)-1-(-1-)))-4-(4-))



TLC: Rf 0.42(: =10:1).

34(85)

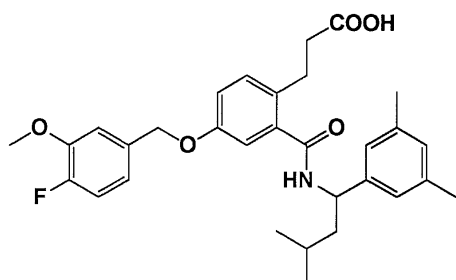
4-(2-((1R)-1-(-1-))-4-(4-))



TLC: Rf 0.42(: =10:1).

34(86)

3-(2-((3- -1-(3,5-)))-4-(4- -3-))

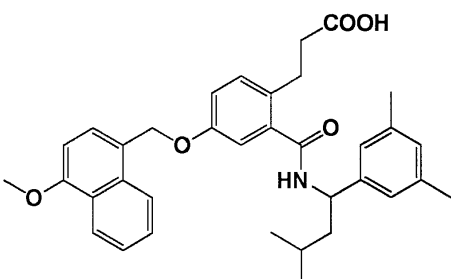


TLC: Rf 0.54(n- : =1:1);

7.17(m, 1H), 7.10-7.00(m, 2H), 6.95-6.90(m, 6H), 6.30(brd, J=8.4Hz, 1H), 5.14(m, 1H), 4.96(s, 2H), 3.89(s, 3H), 2.98-2.93(m, 2H), 2.71-2.66(m, 2H), 2.30(s, 6H), 1.82-1.50(m, 3H), 0.97(d, J=6.3Hz, 3H), 0.96(d, J=6.3Hz, 3H).

34(87)

3-(2-((3- -1-(3,5-)))-4-(4- -1-))

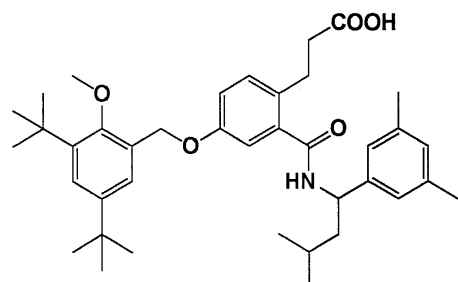


TLC: Rf 0.54(n- : =1:1);

NMR(300MHz, CDCl₃): 8.33(m, 1H), 7.96(m, 1H), 7.58-7.44(m, 4H), 7.20(d, J=8.4Hz, 1H), 7.06-6.89(m, 4H), 6.77(d, J=7.8Hz, 1H), 6.26(brd, J=8.4Hz, 1H), 5.36(s, 2H), 5.14(m, 1H), 4.01(s, 3H), 3.00-2.95(m, 2H), 2.73-2.69(m, 2H), 2.29(s, 6H), 1.80-1.52(m, 3H), 0.96(d, J=6.3Hz, 3H), 0.95(d, J=6.3Hz, 3H).

34(88)

3-(2-((3-(tert-butyl)-5-(tert-butyl)phenoxy)methyl)-4-(2-(3,5-dimethylphenyl)amino)butanoic acid)

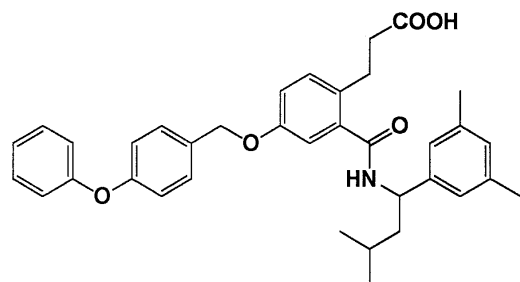


TLC: Rf 0.55(n-hexane:ethyl acetate =1:1);

NMR(300MHz, CDCl₃): 7.36(d, J=2.4Hz, 1H), 7.31(d, J=2.4Hz, 1H), 7.20(m, 1H), 7.01-7.00(m, 2H), 6.95(brs, 2H), 6.90(brs, 1H), 6.24(d, J=8.7Hz, 1H), 5.15(m, 1H), 5.03(s, 2H), 3.79(s, 3H), 3.00-2.95(m, 2H), 2.71(m, 2H), 2.31(s, 6H), 1.82-1.56(m, 3H), 1.41(s, 9H), 1.30(s, 9H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

34(89)

3-(2-((3-(tert-butyl)-5-(tert-butyl)phenoxy)methyl)-4-(4-(tert-butyl)phenyl)amino)butanoic acid)

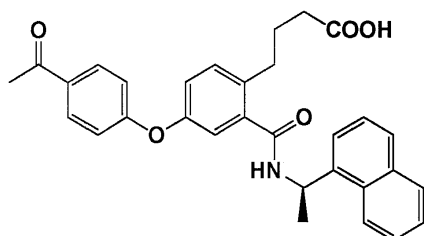


TLC: Rf 0.54(n-hexane:ethyl acetate =1:1);

7.38-7.32(m, 4H), 7.19-6.90(m, 11H), 6.27(d, J=8.7Hz, 1H), 5.14(m, 1H), 4.99(s, 2H), 2.99-2.93(m, 2H), 2.71-2.66(m, 2H), 2.30(s, 6H), 1.81-1.53(m, 3H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

34(90)

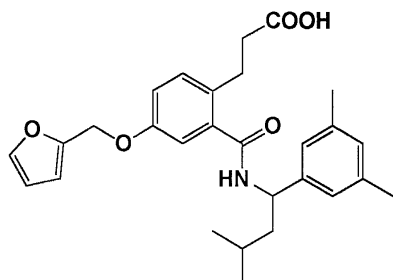
4-(2-(((1R)-1-(tert-butyl)-4-(tert-butyl)phenyl)amino)butanoic acid)



TLC: Rf 0.48(hexane:ethyl acetate =10:1).

34(91)

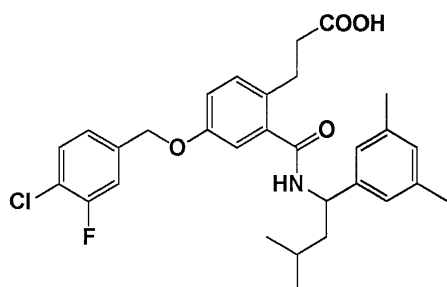
3-(2-((3-(tert-butyl)-5-(tert-butyl)phenoxy)methyl)-4-(2-(tert-butyl)phenyl)amino)butanoic acid)



TLC: Rf 0.47(: =10:1).

34(92)

3-(2-((3- -1-(3,5-))))-4-(4- -3-))

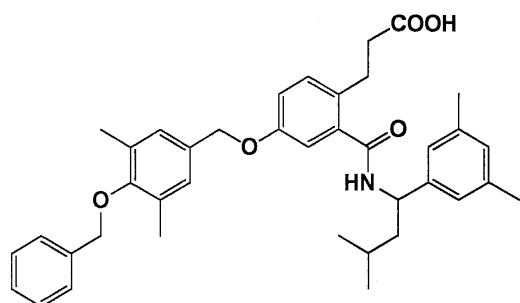


TLC: Rf 0.54(n- : =1:1);

NMR(300MHz, CDCl₃): 7.40(m, 1H), 7.24-7.11(m, 3H), 6.94-6.89(m, 5H), 6.29(d, J=9.0Hz, 1H), 5.15(m, 1H), 5.00(s, 2H), 2.98-2.93(m, 2H), 2.72-2.67(m, 2H), 2.31(s, 6H), 1.82-1.55(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(93)

3-(2-((3- -1-(3,5-))))-4-((3,5- -4-)))

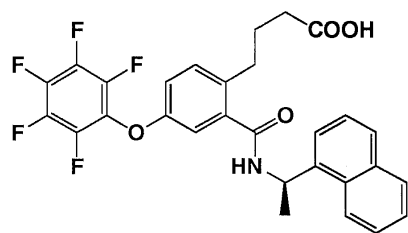


TLC: Rf 0.54(n- : =1:1);

NMR(300MHz, CDCl₃): 7.51-7.35(m, 5H), 7.18(m, 1H), 7.09(brs, 2H), 6.98-6.90(m, 5H), 6.25(d, J=8.4Hz, 1H), 5.15(m, 1H), 4.92(s, 2H), 4.81(s, 2H), 3.00-2.95(m, 2H), 2.76-2.70(m, 2H), 2.32(s, 6H), 2.31(s, 6H), 1.82-1.56(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(94)

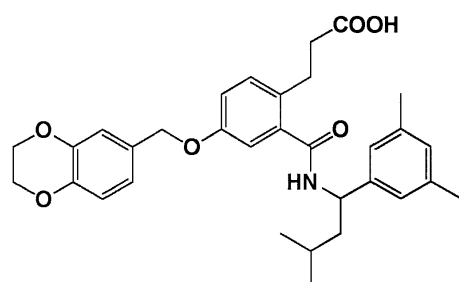
4-(2-((1R)-1-(-1-))-4-(2,3,4,5,6-))



TLC: Rf 0.47(: =10:1).

34(95)

3-(2-((3- -1-(3,5-))))-4-([e]1,4- -6-)))

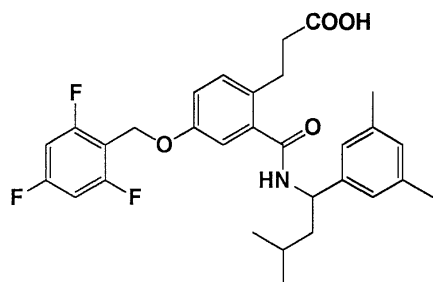


TLC: Rf 0.54(n- : =1:1);

NMR(300MHz, CDCl₃): 7.15(m, 1H), 6.94-6.87(m, 8H), 6.24(d, J=8.7Hz, 1H), 5.14(m, 1H), 4.91(s, 2H), 4.26(s, 4H), 2.98-2.91(m, 2H), 2.71-2.66(m, 2H), 2.30(s, 6H), 1.80-1.56(m, 3H), 0.98(d, J=6.0Hz, 6H).

34(96)

3-(2-((3- -1-(3,5-))))-4-(2,4,6-)))

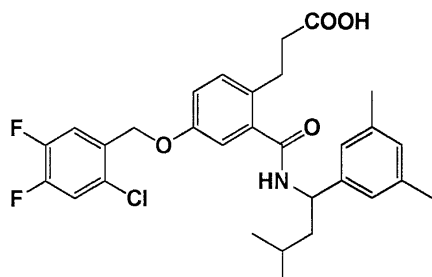


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.20(d, J=8.4Hz, 1H), 7.00-6.95(m, 4H), 6.91(brs, 1H), 6.74-6.68(m, 2H), 6.30(b rd, J=8.7Hz, 1H), 5.15(m, 1H), 5.04(s, 2H), 2.99-2.94(m, 2H), 2.73-2.68(m, 2H), 2.31(s, 6H), 1.83-1.55(m, 3 H), 0.98(d, J=6.3Hz, 6H).

34(97)

3-(2-((3- -1-(3,5-))))-4-(2- -4,5-)))

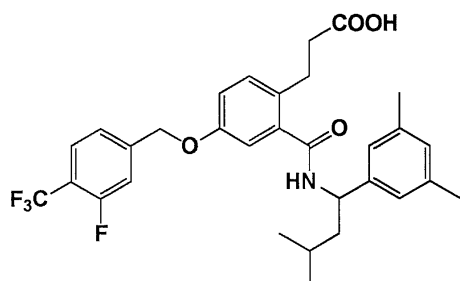


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.39(dd, J=10.8, 8.7Hz, 1H), 7.28-7.18(m, 2H), 6.95-6.91(m, 5H), 6.33(brd, J=8.7Hz, 1H), 5.15(m, 1H), 5.06(s, 2H), 2.99-2.94(m, 2H), 2.93-2.68(m, 2H), 2.31(s, 6H), 1.85-1.54(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(98)

3-(2-((3- -1-(3,5-))))-4-(3- -4-))

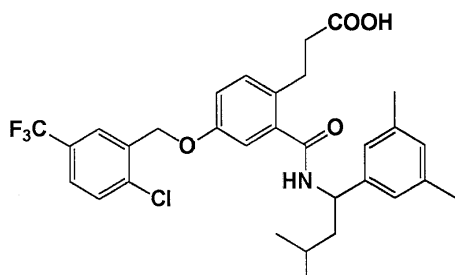


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.61(m, 1H), 7.30-7.25(m, 2H), 7.18(d, J=8.7Hz, 1H), 6.95-6.89(m, 5H), 6.35(d, J=8.7Hz, 1H), 5.15(m, 1H), 5.08(s, 2H), 2.98-2.93(m, 2H), 2.72-2.67(m, 2H), 2.31(s, 6H), 1.83-1.55(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(99)

3-(2-((3- -1-(3,5-))))-4-(2- -5-))

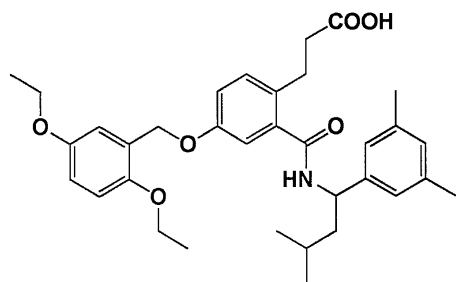


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.85(brs, 1H), 7.54-7.53(m, 2H), 7.21(m, 1H), 7.00-6.91(m, 5H), 6.36(brd, J=7.8 Hz, 1H), 5.16(m, 1H), 5.15(s, 2H), 3.00-2.94(m, 2H), 2.74-2.68(m, 2H), 2.31(s, 6H), 1.84-1.56(m, 3H), 0.98(d, J=6.3Hz, 6H).

34(100)

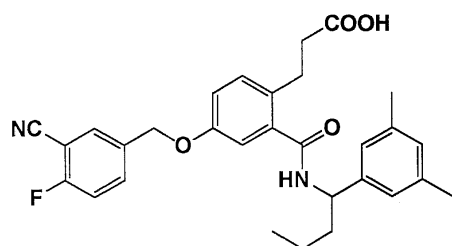
3-(2-((3- -1-(3,5-))))-4-(2,5-))



TLC: Rf 0.55(n- : =1:2).

34(101)

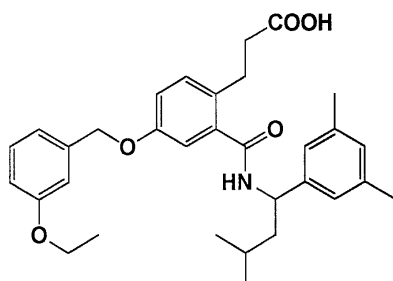
3-(2-((3- -1-(3,5-))) -4-(3- -4-)))



TLC: Rf 0.55(n- : =1:2).

34(102)

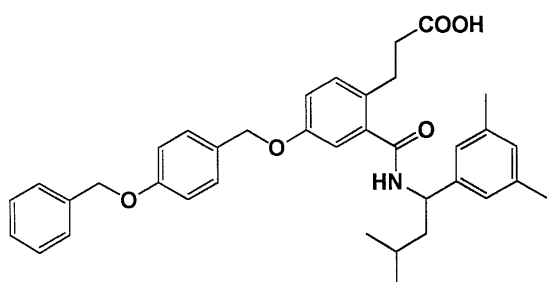
3-(2-((3- -1-(3,5-))) -4-(3-)))



TLC: Rf 0.53(n- : =1:2).

34(103)

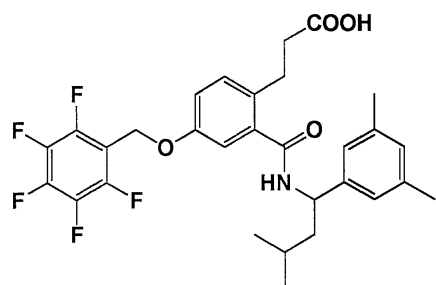
3-(2-((3- -1-(3,5-))) -4-(4-)))



TLC: Rf 0.55(n- : =1:2).

34(104)

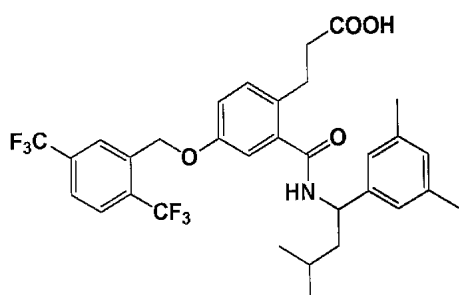
3-(2-((3- -1-(3,5-))))-4-(2,3,4,5,6-))



TLC: Rf 0.58(n- : =1:2).

34(105)

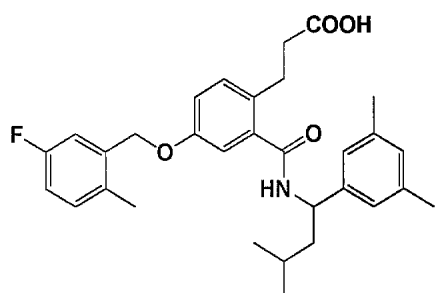
3-(2-((3- -1-(3,5-))))-4-(2,5- ()))



TLC: Rf 0.55(n- : =1:2).

34(106)

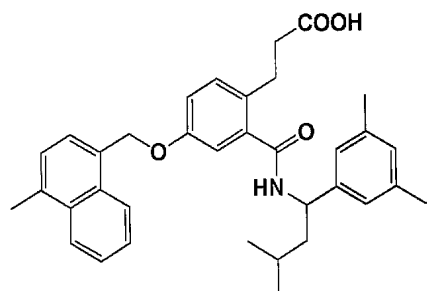
3-(2-((3- -1-(3,5-))))-4-(2- -5-))



TLC: Rf 0.55(n- : =1:2).

34(107)

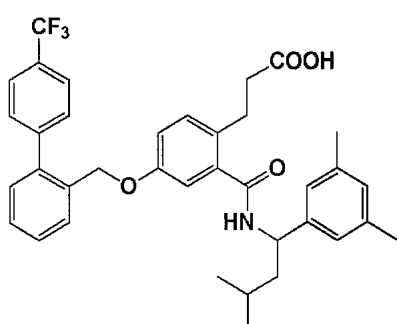
3-(2-((3- -1-(3,5-))))-4-((4- -1-)))



TLC: Rf 0.60(n- : =1:2).

34(108)

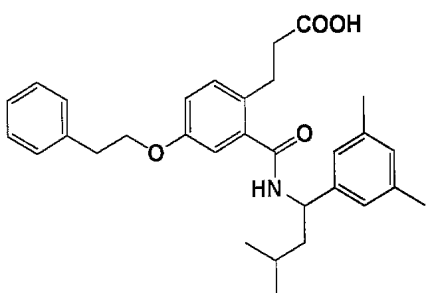
3-(2-((3- -1-(3,5-))) -4-(4'- -1,1'- -2-)))



TLC: Rf 0.55(n- : =1:2).

34(109)

3-(2-((3- -1-(3,5-))) -4-(2-)))

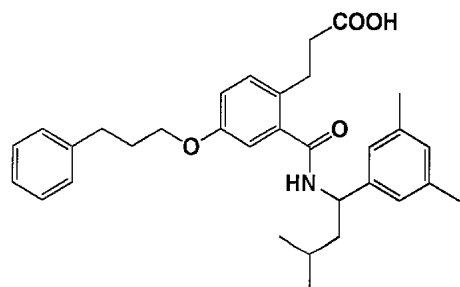


TLC: Rf 0.71(: =10:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.59Hz, 6H), 1.71(m, 3H), 2.30(s, 6H), 2.68(m, 2H), 2.94(m, 2H), 3.08(t, J=7.14Hz, 2H), 4.16(t, J=7.14Hz, 2H), 5.13(m, 1H), 6.26(d, J=7.97Hz, 1H), 6.90(m, 5H), 7.15(m, J=8.79Hz, 1H), 7.29(m, 5H).

34(110)

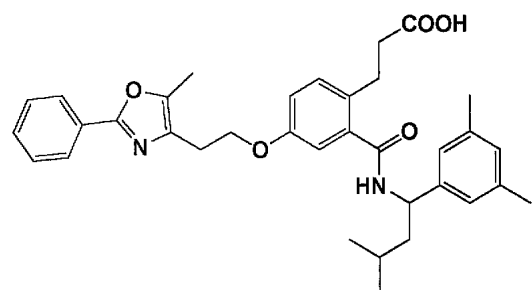
3-(2-((3- -1-(3,5-))) -4-(3-)))



TLC: Rf 0.69(: =10:1).

34(111)

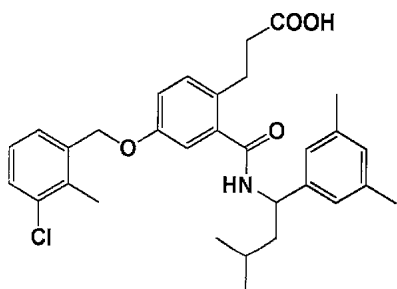
3-(2-((3- -1-(3,5-))))-4-(2-(5- -2- -4-)))



TLC: Rf 0.63(: =10:1).

34(112)

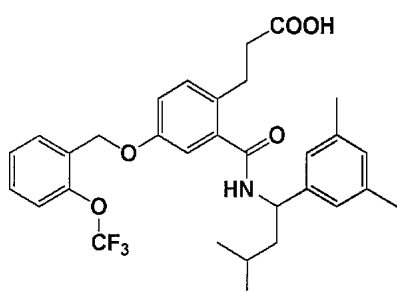
3-(2-((3- -1-(3,5-))))-4-(2- -3-))



TLC: Rf 0.69(: =10:1).

34(113)

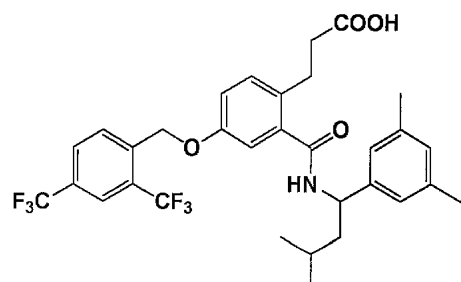
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.56(: =10:1).

34(114)

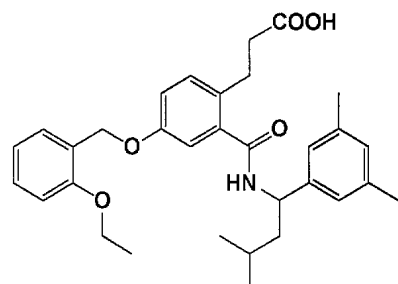
3-(2-((3- -1-(3,5-))))-4-(2,4- ()))



TLC: Rf 0.64(: =10:1).

34(115)

3-(2-((3- -1-(3,5-))))-4-(2- ()))

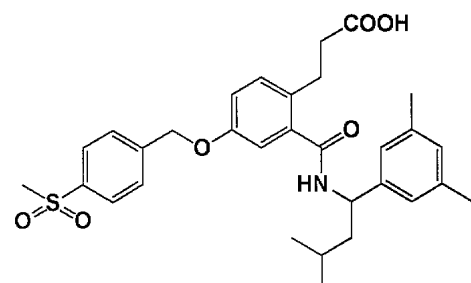


TLC: Rf 0.58(: =9:1);

NMR(300MHz, CDCl₃): 7.40(dd, J=7.8, 1.8Hz, 1H), 7.27(m, 1H), 7.17(m, 1H), 7.03-6.84(m, 7H), 6.22(d, J=8.1Hz, 1H), 5.14(m, 1H), 5.10(s, 2H), 4.06(q, J=6.9Hz, 2H), 3.02-2.89(m, 2H), 2.70(t, J=7.5Hz, 2H), 2.31(s, 6H), 1.83-1.51(m, 3H), 1.40(t, J=6.9Hz, 3H), 0.98(d, J=6.3Hz, 6H).

34(116)

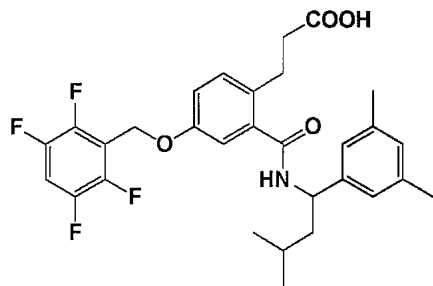
3-(2-((3- -1-(3,5-))))-4-(4- ()))



TLC: Rf 0.53(: =10:1).

34(117)

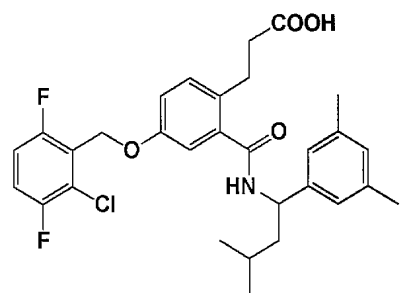
3-(2-((3- -1-(3,5-))))-4-(2,3,5,6- ()))



TLC: Rf 0.47(: =10:1).

34(118)

3-(2-((3- -1-(3,5-))))-4-(2- -3,6-))

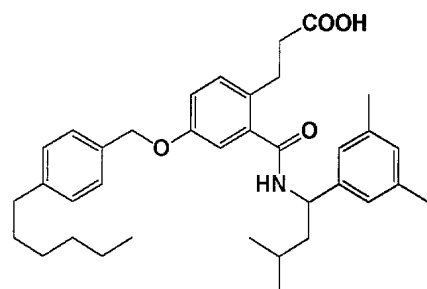


TLC: Rf 0.47(: =10:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.59Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(t, J=7.14Hz, 2H), 2.97(m, 2H), 5.16(m, 1H), 5.16(s, 2H), 6.27(d, J=8.52Hz, 1H), 7.00(m, 6H), 7.18(m, 2H).

34(119)

3-(2-((3- -1-(3,5-))))-4-(4-))

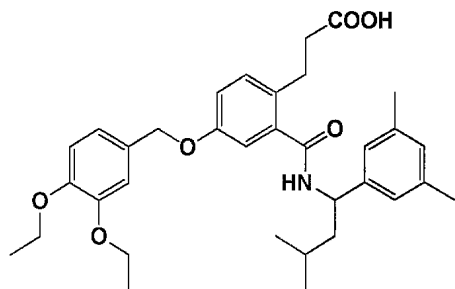


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.32-7.30(m, 2H), 7.20-7.15(m, 3H), 6.97-6.90(m, 5H), 6.22(d, J=8.7Hz, 1H), 5.14(m, 1H), 4.99(s, 2H), 2.98-2.93(m, 2H), 2.71-2.66(m, 2H), 2.63-2.58(m, 2H), 2.30(s, 6H), 1.80-1.56(m, 5H), 1.37-1.28(m, 6H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H), 0.90-0.86(m, 3H).

34(120)

3-(2-((3- -1-(3,5-))))-4-(3,4-))

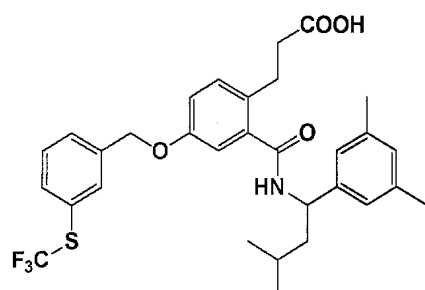


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.17(m, 1H), 6.97-6.85(m, 8H), 6.25(d, J=9.0Hz, 1H), 5.14(m, 1H), 4.94(s, 2H), 4.09(q, J=6.9Hz, 4H), 2.99-2.93(m, 2H), 2.72-2.68(m, 2H), 2.31(s, 6H), 1.82-1.55(m, 3H), 1.45(t, J=6.9Hz, 3H), 1.44(t, J=6.9Hz, 3H).

34(121)

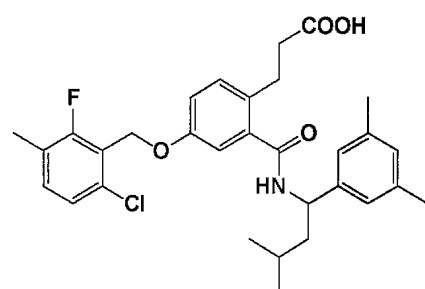
3-(2-((3- -1-(3,5-))) -4-(3-))



TLC: Rf 0.53(: =10:1).

34(122)

3-(2-((3- -1-(3,5-))) -4-(6- -2- -3-))

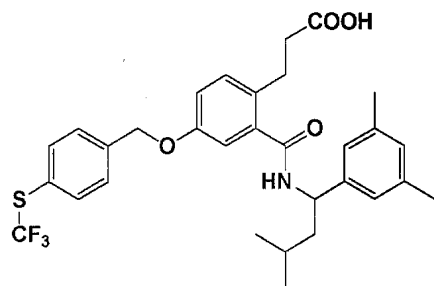


TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 0.98(d, J=5.77Hz, 6H), 1.68(m, 3H), 2.27(s, 3H), 2.30(s, 6H), 2.71(t, J=7.50Hz, 2H), 2.98(m, 2H), 5.15(s, 2H), 5.16(m, 1H), 6.25(d, J=8.24Hz, 1H), 6.99(m, 5H), 7.17(m, 3H).

34(123)

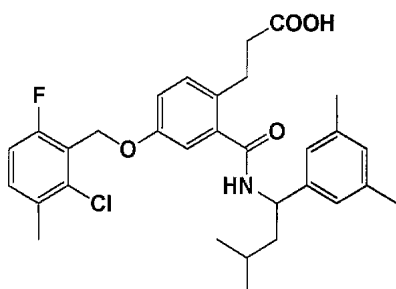
3-(2-((3- -1-(3,5-))) -4-(4-))



TLC: Rf 0.53(: =10:1).

34(124)

3-(2-((3- -1-(3,5-))))-4-(2- -6- -3-))

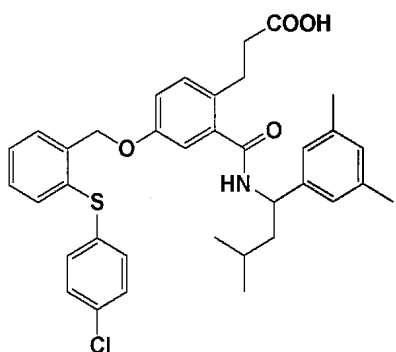


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 0.98(d, J=5.49Hz, 6H), 1.69(m, 3H), 2.27(d, J=2.20Hz, 3H), 2.31(s, 6H), 2.72(t, J=7.42Hz, 2H), 2.98(m, 2H), 5.14(m, 1H), 5.15(s, 2H), 6.26(d, J=8.52Hz, 1H), 7.00(m, 5H), 7.17(m, 3H).

34(125)

3-(2-((3- -1-(3,5-))))-4-(2-(4-)))

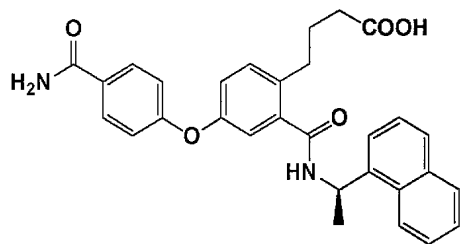


TLC: Rf 0.53(: =10:1);

NMR(300MHz, CDCl₃): 0.99(d, J=6.60Hz, 6H), 1.69(m, 3H), 2.31(s, 6H), 2.70(t, J=7.50Hz, 2H), 2.95(m, 2H), 5.13(m, 2H), 5.14(s, 1H), 6.23(d, J=8.52Hz, 1H), 6.90(m, 5H), 7.13(m, 3H), 7.22(m, 2H), 7.35(m, 3H), 7.56(d, J=7.69Hz, 1H).

34(126)

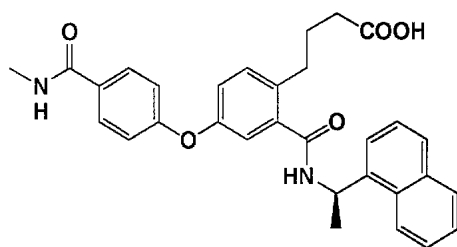
4-(2-((1R)-1-(-1-)))-4-(4-))



TLC: Rf 0.23(: =10:1).

34(127)

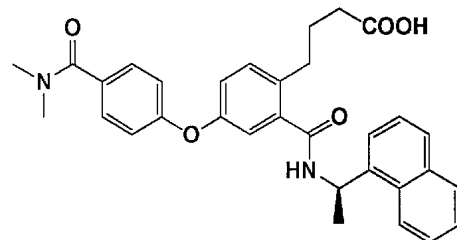
4-(2-((1R)-1-(-1-))-4-(4-N-))



TLC: Rf 0.26(: =10:1).

34(128)

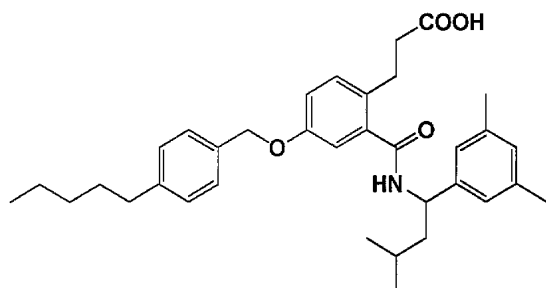
4-(2-((1R)-1-(-1-))-4-(4-N,N-))



TLC: Rf 0.28(: =10:1).

34(129)

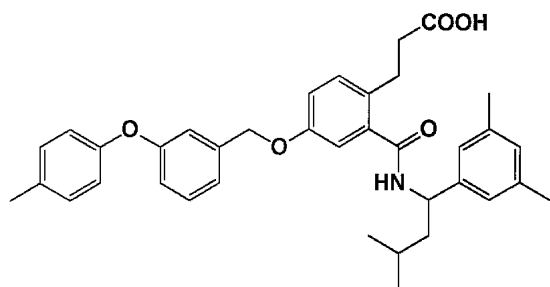
3-(2-((3- -1-(3,5-)))-4-(4-))



TLC: Rf 0.70(: =9:1).

34(130)

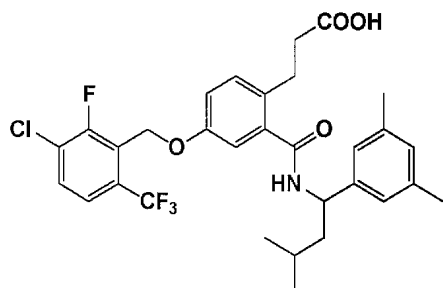
3-(2-((3- -1-(3,5-))))-4-(3-(4-)))



TLC: Rf 0.75(: =9:1).

34(131)

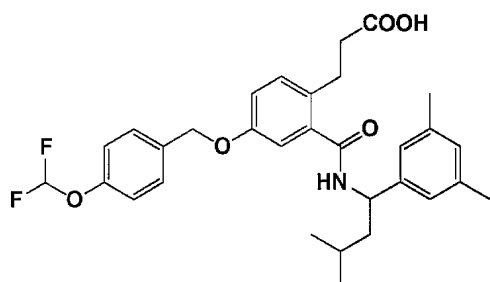
3-(2-((3- -1-(3,5-))))-4-(3- -2- -6-))



TLC: Rf 0.70(: =9:1).

34(132)

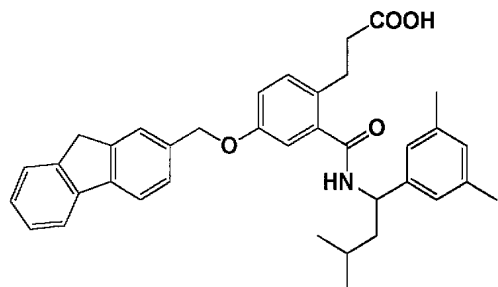
3-(2-((3- -1-(3,5-))))-4-(4-))



TLC: Rf 0.60(: =9:1).

34(133)

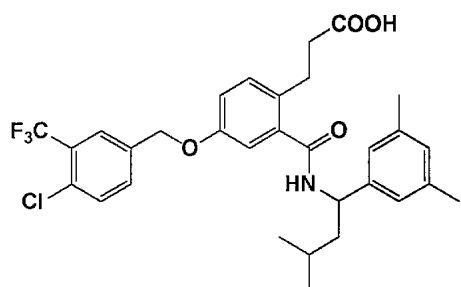
3-(2-((3- -1-(3,5-))))-4-(-2-))



TLC: Rf 0.73(: =9:1).

34(134)

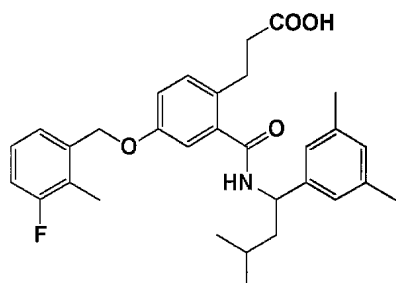
3-(2-((3- -1-(3,5-))))-4-(4- -3-))



TLC: Rf 0.74(: =9:1).

34(135)

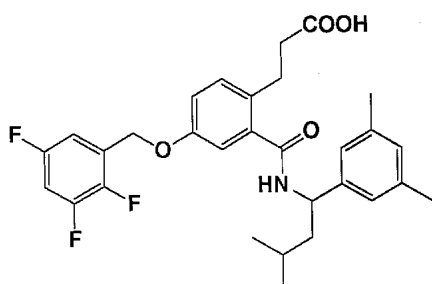
3-(2-((3- -1-(3,5-))))-4-(3- -2-))



TLC: Rf 0.69(: =9:1).

34(136)

3-(2-((3- -1-(3,5-))))-4-(2,3,5-))

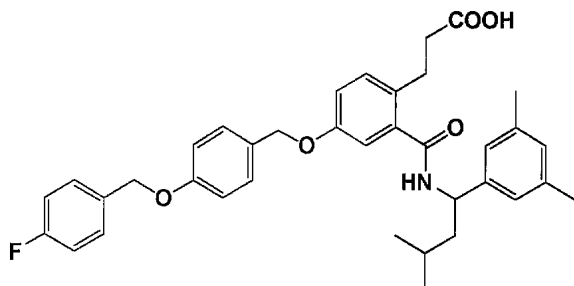


TLC: Rf 0.77(: =9:1).

NMR(300MHz, CDCl₃): 7.32(s, 3H), 7.18-7.15(m, 2H), 6.95-6.90(m, 5H), 6.25(brd, J=8.4Hz, 1H), 5.14(m, 1H), 4.99(s, 2H), 2.99-2.92(m, 4H), 2.72-2.67(m, 2H), 2.31(s, 6H), 1.82-1.56(m, 3H), 1.32(t, J=7.2Hz, 3H), 0.98(t, J=6.3Hz, 6H).

34(140)

3-(2-((3-(4-(3,5-dimethylphenyl)butanoic acid)oxy)phenyl)methoxy)phenyl)propanoic acid

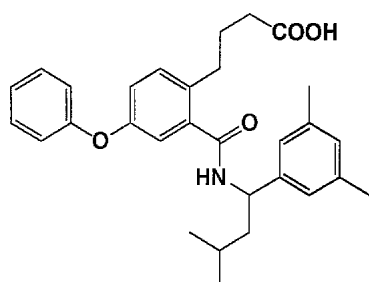


TLC: Rf 0.56(: =10:1);

NMR(300MHz, CDCl₃): 7.42-7.38(m, 2H), 7.35-7.32(m, 2H), 7.16(m, 1H), 7.10-7.04(m, 2H), 6.98-6.90(m, 7H), 6.25(d, J=8.5Hz, 1H), 5.14(m, 1H), 5.03(s, 2H), 4.96(s, 2H), 2.98-2.93(m, 2H), 2.72-2.67(m, 2H), 2.30(s, 6H), 1.82-1.55(m, 3H), 0.98(d, J=6.3Hz, 3H), 0.97(d, J=6.3Hz, 3H).

34(141)

4-(2-((3-(4-(3,5-dimethylphenyl)butanoic acid)oxy)phenyl)methoxy)phenyl)propanoic acid

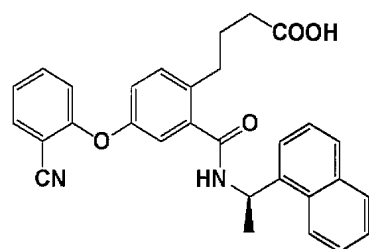


TLC: Rf 0.59(: =9:1);

NMR(300MHz, CDCl₃): 7.38-7.30(m, 2H), 7.17(d, J=8.4Hz, 1H), 7.12(t, J=7.4Hz, 1H), 7.02-6.88(m, 7H), 5.91(d, J=8.7Hz, 1H), 5.12(m, 1H), 2.73(t, J=7.7Hz, 2H), 2.30(t, J=7.5Hz, 2H), 2.29(s, 6H), 1.97-1.49(m, 5H), 0.97(d, J=6.6Hz, 3H), 0.96(d, J=6.6Hz, 3H).

34(142)

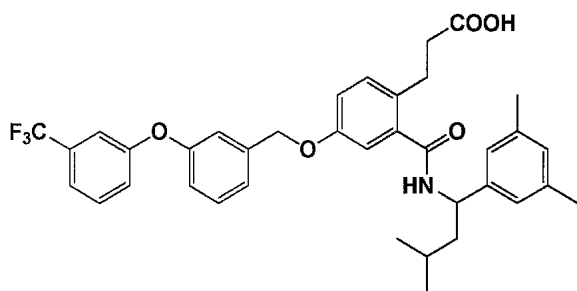
4-(2-((1R)-1-(4-(3,5-dimethylphenyl)butanoic acid)oxy)phenyl)methoxy)phenyl)propanoic acid



TLC: Rf 0.48(: =10:1).

34(143)

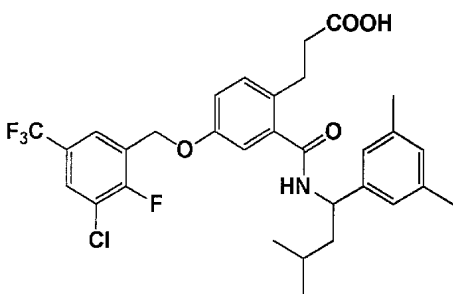
3-(2-((3- -1-(3,5-))) -4-(3-(3-))))



TLC: Rf 0.70(: =9:1).

34(144)

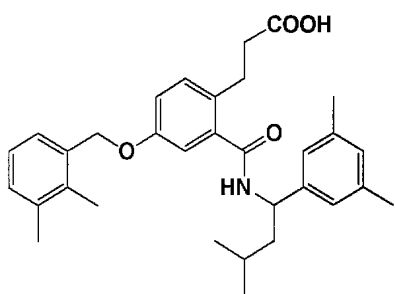
3-(2-((3- -1-(3,5-))) -4-(3- -2- -5-)))



TLC: Rf 0.66(: =9:1).

34(145)

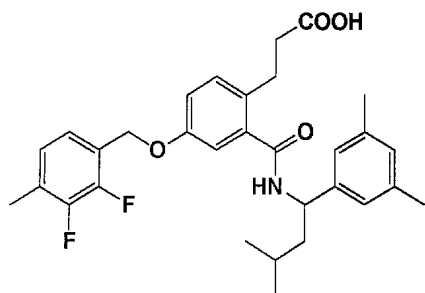
3-(2-((3- -1-(3,5-))) -4-(2,3-)))



TLC: Rf 0.66(: =9:1).

34(146)

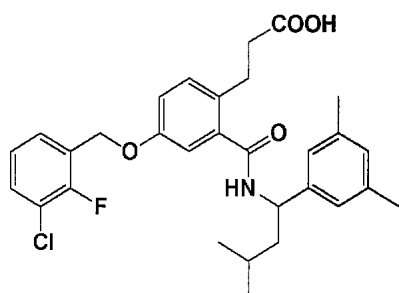
3-(2-((3- -1-(3,5-))) -4-(2,3- -4-)))



TLC: Rf 0.36(: =9:1).

34(147)

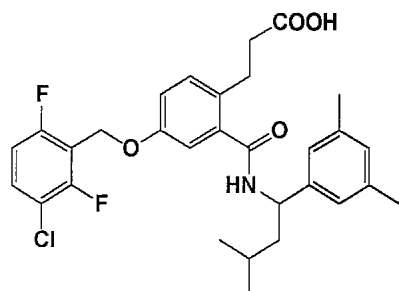
3-(2-((3- -1-(3,5-))))-4-(3- -2-))



TLC: Rf 0.33(: =9:1).

34(148)

3-(2-((3- -1-(3,5-))))-4-(3- -2,6-))

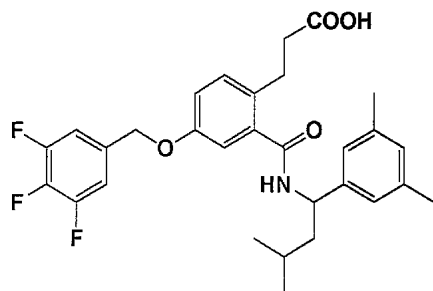


TLC: Rf 0.33(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.04Hz, 6H), 1.69(m, 3H), 2.30(s, 6H), 2.69(t, J=7.14Hz, 2H), 2.96(m, 2H) 5.15(m, 3H), 6.29(d, J=8.52Hz, 1H), 6.94(m, 6H), 7.20(d, J=8.79Hz, 1H), 7.41(m, 1H).

34(149)

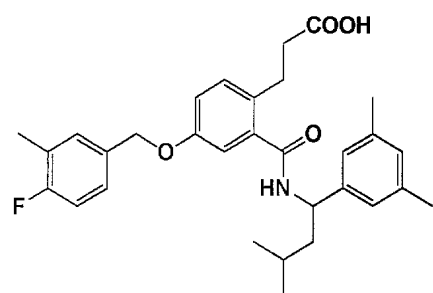
3-(2-((3- -1-(3,5-))))-4-(3,4,5-))



TLC: Rf 0.35(: =9:1).

34(150)

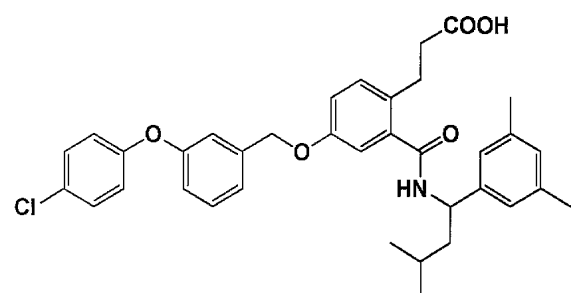
3-(2-((3- -1-(3,5-))))-4-(4- -3-))



TLC: Rf 0.35(: =9:1).

34(151)

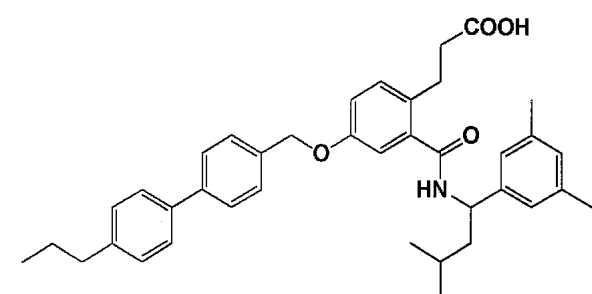
3-(2-((3- -1-(3,5-))))-4-(3-(4-)))



TLC: Rf 0.35(: =9:1).

34(152)

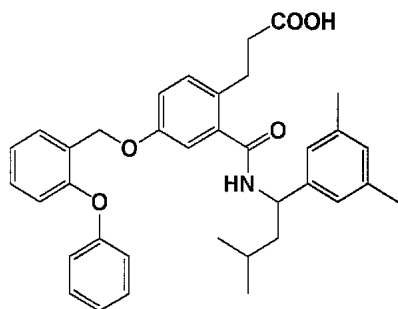
3-(2-((3- -1-(3,5-))))-4-(4-(4-)))



TLC: Rf 0.56(: =9:1).

34(153)

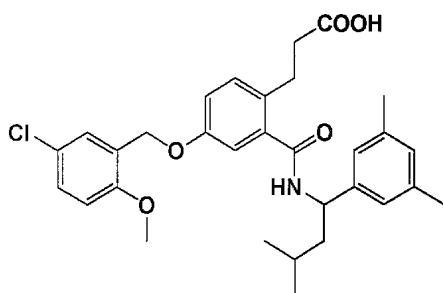
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.53(: =9:1).

34(154)

3-(2-((3- -1-(3,5-))))-4-(5- -2-))

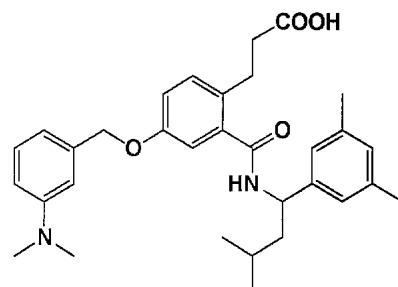


TLC: Rf 0.51(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.68(m, 3H), 2.31(s, 6H), 2.71(m, 2H), 2.97(m, 2H), 3.82(s, 3H), 5.03(s, 2H), 5.15(m, 1H), 6.28(d, J=8.24Hz, 1H), 6.82(d, J=8.79Hz, 1H), 6.95(m, 5H), 7.18(d, J=8.24Hz, 1H), 7.23(d, J=2.75Hz, 1H), 7.42(d, J=2.47Hz, 1H).

34(155)

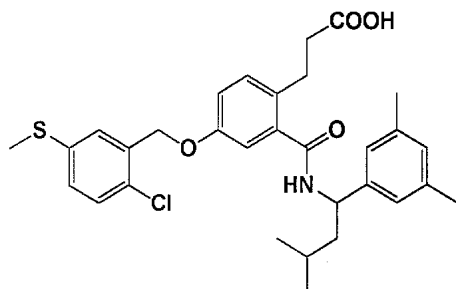
3-(2-((3- -1-(3,5-))))-4-(3-))



TLC: Rf 0.44(: =9:1).

34(156)

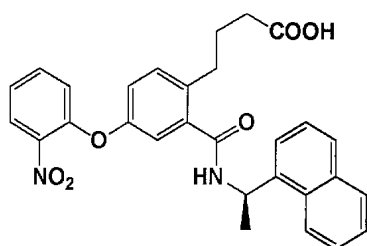
3-(2-((3- -1-(3,5-))))-4-(2- -5-))



TLC: Rf 0.44(: =9:1).

34(157)

4-(2-((1R)-1-(-1-))-4-(2-))

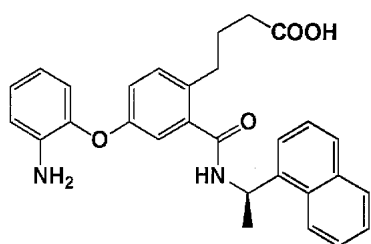


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃): 1.78(d, J=6.32Hz, 3H), 1.93(m, 2H), 2.30(m, 2H), 2.78(m, 2H), 6.10(m, 2H), 6.96(m, 3H), 7.21(m, 2H), 7.49(m, 5H), 7.81(d, J=7.97Hz, 1H), 7.87(dd, J=7.20, 1.80Hz, 1H), 7.93(dd, J=8.10, 1.51 Hz, 1H), 8.20(d, J=7.97Hz, 1H).

34(158)

4-(2-((1R)-1-(-1-))-4-(2-))

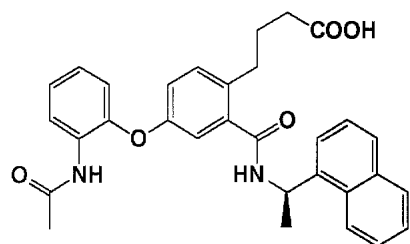


TLC: Rf 0.46(: =10:1);

NMR(300MHz, CDCl₃): 1.77(d, J=6.04Hz, 3H), 1.91(m, 2H), 2.27(m, 2H), 2.75(m, 2H), 6.09(m, 2H), 6.68(m, 1H), 6.81(m, 3H), 6.96(m, 2H), 7.11(d, J=8.52Hz, 1H), 7.50(m, 4H), 7.81(d, J=7.97Hz, 1H), 7.87(m, 1H), 8.19(d, J=7.69Hz, 1H).

34(159)

4-(2-((1R)-1-(-1-))-4-(2-))

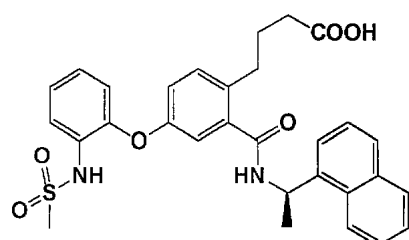


TLC: Rf 0.40(: =10:1);

NMR(300MHz, DMSO-d₆): 1.55(d, J=6.87Hz, 3H), 1.70(m, 2H), 1.99(s, 3H), 2.09(m, 2H), 2.62(m, 2H), 5.87(m, 1H), 6.91(m, 3H), 7.10(m, 2H), 7.21(d, J=8.24Hz, 1H), 7.52(m, 4H), 7.82(d, J=7.97Hz, 1H), 7.93(m, 2H), 8.20(d, J=8.24Hz, 1H), 8.94(d, J=7.97Hz, 1H), 9.44(s, 1H), 12.01(s, 1H).

34(160)

4-(2-(((1R)-1-())-4-(2-))

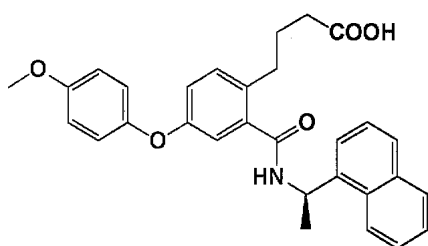


TLC: Rf 0.41(: =10:1);

NMR(300MHz, CDCl₃): 1.78(d, J=6.59Hz, 3H), 1.90(m, 2H), 2.27(m, 2H), 2.76(m, 2H), 2.90(s, 3H), 6.10(m, 1H), 6.22(d, J=8.40Hz, 1H), 6.77(s, 1H), 6.88(m, 3H), 7.13(m, 3H), 7.51(m, 5H), 7.81(d, J=8.24Hz, 1H), 7.88(m, 1H), 8.18(m, 1H).

34(161)

4-(2-(((1R)-1-())-4-(4-))

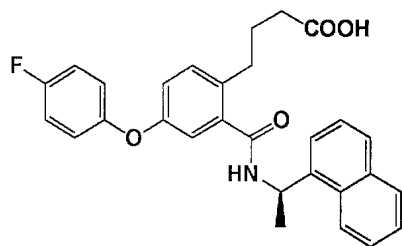


TLC: Rf 0.15(n- : =1:1);

NMR(300MHz, CDCl₃): 8.18(m, 1H), 7.87(m, 1H), 7.80(d, J=8.4Hz, 1H), 7.56-7.42(m, 4H), 7.11(d, J=8.4 Hz, 1H), 6.92-6.83(m, 6H), 6.09(m, 1H), 5.99(brd, J=8.4Hz, 1H), 3.80(s, 3H), 2.83-2.67(m, 2H), 2.32-2.67(m, 2H), 1.95-1.86(m, 2H), 1.76(d, J=6.6Hz, 3H).

34(162)

4-(2-(((1R)-1-())-4-(4-))

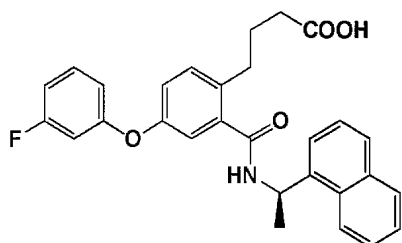


TLC: Rf 0.19(n- : =1:1);

NMR(300MHz, CDCl₃): 8.18(m, 1H), 7.88(m, 1H), 7.81(d, J=8.1Hz, 1H), 7.55-7.42(m, 4H), 7.14(m, 1H), 7.02-6.92(m, 2H), 6.90-6.86(m, 4H), 6.09(m, 1H), 5.98(brd, J=7.8Hz, 1H), 2.85-2.68(m, 2H), 2.39-2.22(m, 2H), 1.96-1.87(m, 2H), 1.77(d, J=6.6Hz, 3H).

34(163)

4-(2-((1R)-1-()-1-))-4-(3-))

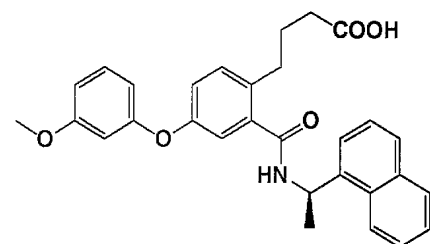


TLC: Rf 0.22(n- : =1:1);

NMR(300MHz, CDCl₃): 8.19(d, J=8.1Hz, 1H), 7.86(m, 1H), 7.81(d, J=7.8Hz, 1H), 7.55-7.42(m, 4H), 7.27-7.17(m, 2H), 6.96-6.94(m, 2H), 6.78(m, 1H), 6.69(m, 1H), 6.63(m, 1H), 6.11(m, 1H), 6.02(m, 1H), 2.83-2.73(m, 2H), 2.35-2.28(m, 2H), 1.98-1.88(m, 2H), 1.78(d, J=6.6Hz, 3H).

34(164)

4-(2-((1R)-1-()-1-))-4-(3-))

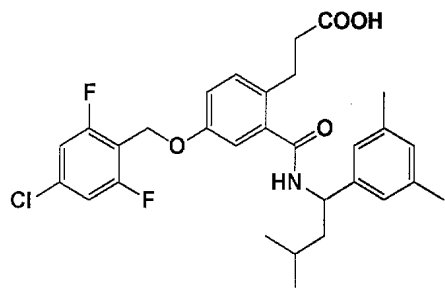


TLC: Rf 0.25(n- : =1:1);

NMR(300MHz, CDCl₃): 8.19(d, J=8.1Hz, 1H), 7.87(m, 1H), 7.81(d, J=7.8Hz, 1H), 7.57-7.42(m, 4H), 7.22-7.15(m, 2H), 6.95-6.91(m, 2H), 6.64(m, 1H), 6.51-6.49(m, 2H), 6.10(m, 1H), 6.01(brd, J=8.4Hz, 1H), 3.75(s, 3H), 2.85-2.70(m, 2H), 2.34-2.28(m, 2H), 1.97-1.88(m, 2H), 1.77(d, J=6.6Hz, 3H).

34(165)

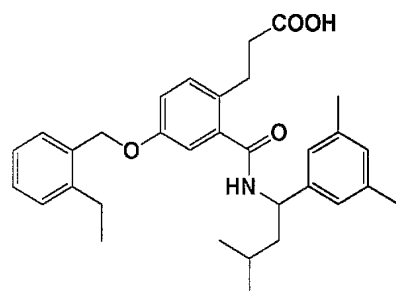
3-(2-((3-)-1-(3,5-)))-4-(4-)-2,6-))



TLC: Rf 0.62(: =9:1).

34(166)

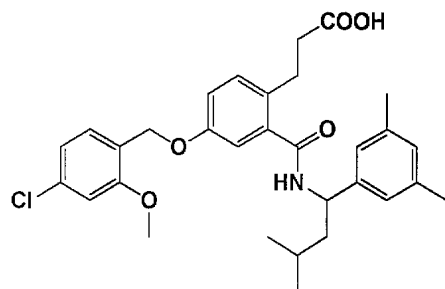
3-(2-((3- -1-(3,5-))))-4-(2-))



TLC: Rf 0.62(: =9:1).

34(167)

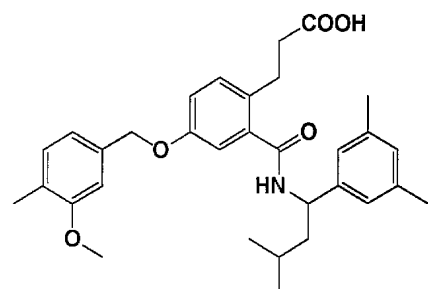
3-(2-((3- -1-(3,5-))))-4-(4- -2-))



TLC: Rf 0.62(: =9:1).

34(168)

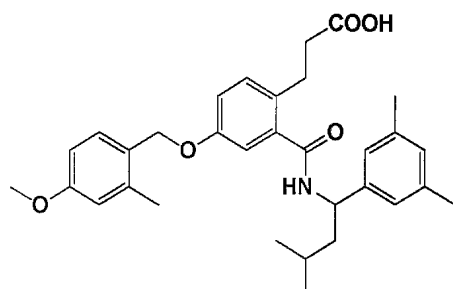
3-(2-((3- -1-(3,5-))))-4-(4- -3-))



TLC: Rf 0.62(: =9:1).

34(169)

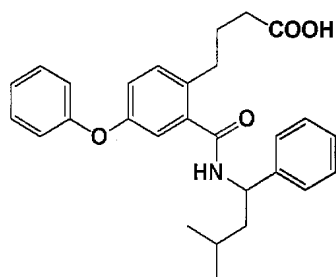
3-(2-((3- -1-(3,5-))))-4-(2- -4-))



TLC: Rf 0.62(: =9:1).

34(170)

4-(2-(3- -1-))-4-)

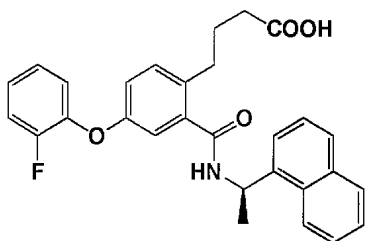


TLC: Rf 0.31(n- : =1:1);

NMR(300MHz, CDCl₃): 0.97(d, J=6.32Hz, 6H), 1.74(m, 5H), 2.29(m, 2H), 2.71(m, 2H), 5.20(m, 1H), 5.97(d, J=8.52Hz, 1H), 6.96(m, 4H), 7.14(m, 2H), 7.31(m, 7H).

34(171)

4-(2-((1R)-1-(-1-)))-4-(2-))

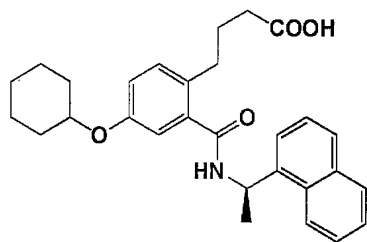


TLC: Rf 0.24(n- : =1:1);

NMR(300MHz, CDCl₃): 8.18(m, 1H), 7.86(m, 1H), 7.80(d, J=8.0Hz, 1H), 7.56-7.41(m, 4H), 7.18-7.03(m, 4H), 7.01(m, 1H), 6.92(d, J=2.8Hz, 1H), 6.85(dd, J=8.5, 2.8Hz, 1H), 6.13-6.04(m, 2H), 2.83-2.67(m, 2H), 2.38-2.20(m, 2H), 1.94-1.86(m, 2H), 1.76(d, J=6.3Hz, 3H).

34(172)

4-(2-((1R)-1-(-1-)))-4-)

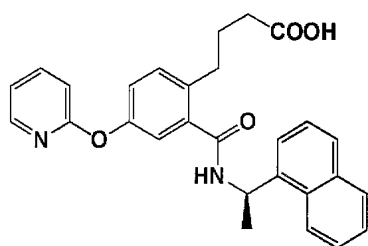


TLC: Rf 0.15(n- : =1:1);

NMR(300MHz, CDCl₃): 1.36(m, 6H), 1.84(m, 9H), 2.28(m, 2H), 2.72(m, 2H), 4.12(m, 1H), 6.07(m, 2H), 6.81(m, 2H), 7.09(d, J=8.24Hz, 1H), 7.54(m, 4H), 7.85(m, 2H), 8.23(d, J=8.52Hz, 1H).

34(173)

4-(2-(((1R)-1-(-1-))-4-(-2-))

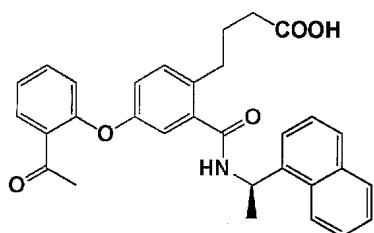


TLC: Rf 0.45(: =9:1);

NMR(300MHz, CDCl₃): 1.74(d, J=6.87Hz, 3H), 1.86(m, 2H), 2.19(m, 2H), 2.73(m, 2H), 6.10(m, 1H), 6.58(d, J=8.52Hz, 1H), 6.91(d, J=8.24Hz, 1H), 7.02(m, 3H), 7.19(m, 1H), 7.49(m, 4H), 7.69(m, 1H), 7.77(d, J=8.24 Hz, 1H), 7.84(m, 1H), 8.08(m, 1H), 8.21(d, J=8.24Hz, 1H).

34(174)

4-(2-(((1R)-1-(-1-))-4-(2-))

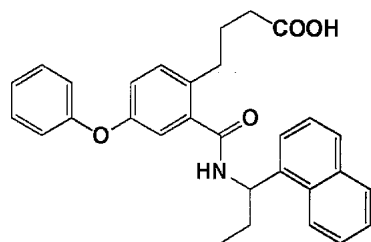


TLC: Rf 0.45(: =9:1);

NMR(300MHz, CDCl₃): 1.77(d, J=6.04Hz, 3H), 1.90(m, 2H), 2.29(m, 2H), 2.55(s, 3H), 2.76(m, 2H), 6.12(m, J=6.04Hz, 2H), 6.83(m, J=8.24Hz, 1H), 6.90(m, 1H), 6.96(d, J=2.75Hz, 1H), 7.15(m, 2H), 7.45(m, 5H), 7.79(m, 2H), 7.86(m, 1H), 8.20(d, J=7.97Hz, 1H).

34(175)

4-(2-(1-(-1-))-4-)

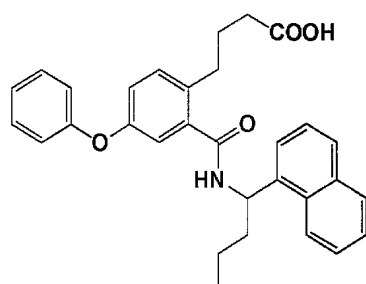


TLC: Rf 0.12(n- : =1:1);

NMR(300MHz, CDCl₃): 1.08(t, J=7.42Hz, 3H), 1.89(m, 2H), 2.20(m, 4H), 2.73(m, 2H), 5.96(m, 2H), 6.93(m, 4H), 7.13(m, 2H), 7.32(m, 2H), 7.51(m, 4H), 7.80(m, 1H), 7.87(m, 1H), 8.26(d, J=8.24Hz, 1H).

34(176)

4-(2-(1-(-1-))-4-)

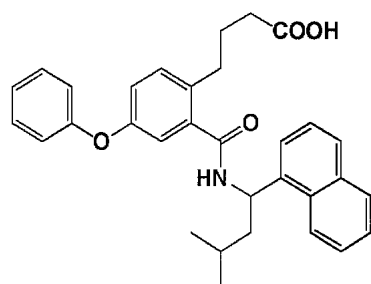


TLC: Rf 0.12(n- : =1:1);

NMR(300MHz, CDCl₃): 1.01(m, 3H), 1.52(m, 2H), 1.87(m, 2H), 2.05(m, 2H), 2.25(m, 2H), 2.72(t, J=7.69 Hz, 2H), 6.00(m, 2H), 6.94(m, 4H), 7.12(m, 2H), 7.32(m, 2H), 7.50(m, 4H), 7.80(m, 1H), 7.86(m, 1H), 8.27(d, J=8.52Hz, 1H).

34(177)

4-(2-((3- -1-(-1-)))-4-)

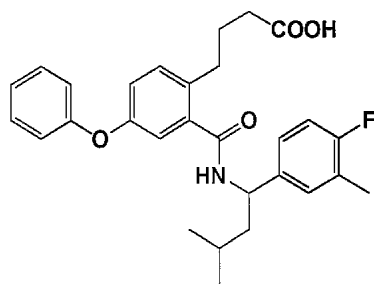


TLC: Rf 0.18(n- : =2:1);

NMR(300MHz, DMSO-d₆): 8.99(d, J=8.1Hz, 1H), 8.18(d, J=8.7Hz, 1H), 7.94(m, 1H), 7.80(d, J=7.8Hz, 1H), 7.62-7.38(m, 6H), 7.24(d, J=8.7Hz, 1H), 7.16(m, 1H), 7.05-7.02(m, 2H), 6.98(dd, J=8.1, 2.4Hz, 1H), 6.88(d, J=2.4Hz, 1H), 5.85(m, 1H), 2.68-2.50(m, 2H), 2.10-2.05(m, 2H), 1.90-1.65(m, 4H), 1.56(m, 1H), 1.06(d, J=6.6Hz, 3H), 0.89(d, J=6.3Hz, 1H).

34(178)

4-(2-((3- -1-(4- -3-)))-4-)

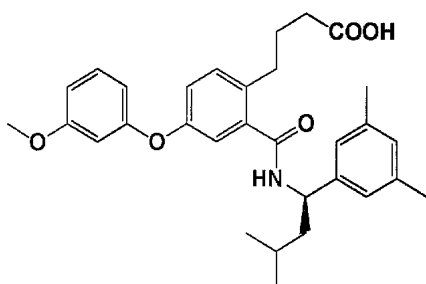


TLC: Rf 0.16(n- : =2:1);

NMR(300MHz, DMSO-d₆) : 8.73(d, J=8.7Hz, 1H), 7.43-7.37(m, 2H), 7.24-7.13(m, 4H), 7.07-6.95(m, 4H), 6.83(d, J=2.4Hz, 1H), 4.95(m, 1H), 2.61-2.54(m, 2H), 2.18(brs, 3H), 2.08-2.03(m, 2H), 1.75-1.53(m, 4H), 1.39(m, 1H), 0.89(d, J=6.0Hz, 3H), 0.87(d, J=6.3Hz, 3H).

34(179)

3-(2-(((1R)-3- -1-(3,5-))))-4-(3-))

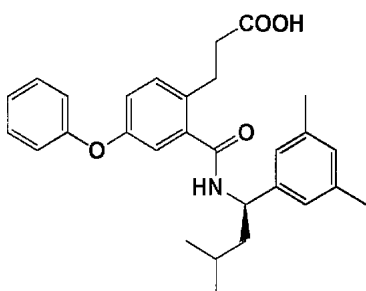


TLC: Rf 0.52(: =10:1);

NMR(300MHz, CDCl₃) : 0.96(d, J=6.32Hz, 3H), 0.97(d, J=6.32Hz, 3H), 1.75(m, 5H), 2.30(m, 2H), 2.29(s, 6H), 2.73(t, J=7.69Hz, 2H), 3.78(s, 3H), 5.13(m, 1H), 5.94(d, J=8.52 Hz, 1H), 6.56(m, 2H), 6.66(m, 1H), 6.95(m, 5H), 7.19(m, 2H).

34(180)

3-(2-(((1R)-3- -1-(3,5-))))-4-(3-))

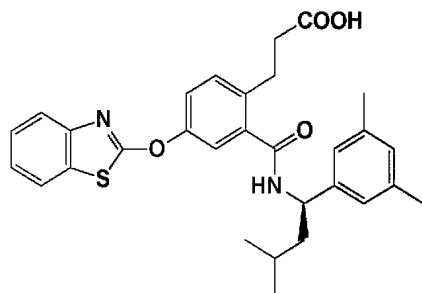


TLC: Rf 0.57(: =9:1);

NMR(300MHz, CDCl₃) : 7.40-7.30(m, 2H), 7.17(d, J=8.1Hz, 1H), 7.16-7.09(m, 1H), 7.04-6.82(m, 7H), 6.19(d, J=8.4Hz, 1H), 5.13(q, J=8.4Hz, 1H), 3.08-2.92(m, 2H), 2.71(t, J=6.9Hz, 2H), 2.29(s, 6H), 1.80-1.50(m, 3H), 0.96(dd, J=6.3, 1.8Hz, 6H).

34(181)

3-(2-(((1R)-3- (3,5-))))-4-((2-)))

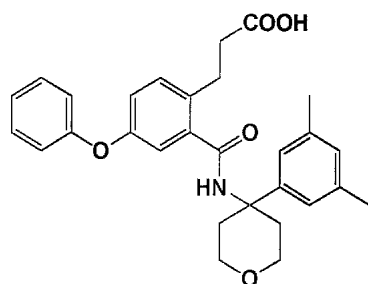


TLC: Rf 0.55(: =9:1);

NMR(300MHz, CDCl₃): 0.96(d, J=6.32Hz, 3H), 0.97(d, J=6.32Hz, 3H), 1.68(m, 3H), 2.28(s, 6H), 2.68(m, 2H), 3.01(m, 2H), 5.14(m, 1H), 6.64(d, J=8.24Hz, 1H), 6.88(s, 1H), 6.95(s, 2H), 7.34(m, 5H), 7.69(m, 2H).

34(182)

3-(2-((4-(3,5-)))-4-))-4-)

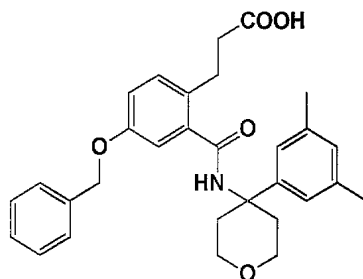


TLC: Rf 0.35(n- : : =100:100:1);

NMR(300MHz, DMSO-d₆): 1.89(m, 2H), 2.20(s, 6H), 2.35(m, 2H), 2.46(m, J=7.48Hz, 2H), 2.84(t, J=7.48 Hz, 2H), 3.68(m, 4H), 6.81(s, 1H), 6.91(d, J=2.75Hz, 1H), 7.02(m, 5H), 7.17(m, 1H), 7.30(d, J=8.52Hz, 1H), 7.41(m, 2H), 8.55(s, 1H), 12.10(s, 1H).

34(183)

3-(2-((4-(3,5-)))-4-))-4-)

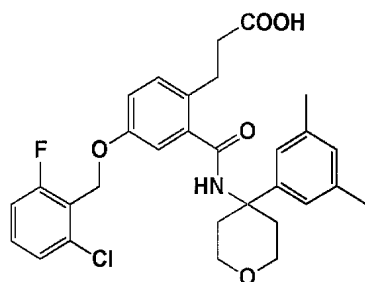


TLC: Rf 0.47(: =9:1);

NMR(300MHz, CDCl₃): 2.22(m, 2H), 2.32(s, 6H), 2.44(m, 2H), 2.67(t, J=7.28Hz, 2H), 2.95(t, J=7.28Hz, 2H), 3.77(m, 2H), 3.92(m, 2H), 5.07(s, 2H), 6.35(s, 1H), 6.90(s, 1H), 6.98(dd, J=8.50, 2.75Hz, 1H), 7.04(d, J=2.75Hz, 1H), 7.07(s, 2H), 7.18(d, J=8.50Hz, 1H), 7.39(m, 5H).

34(184)

3-(2-((4-(3,5-)) -4-))-4-(2- -6-))

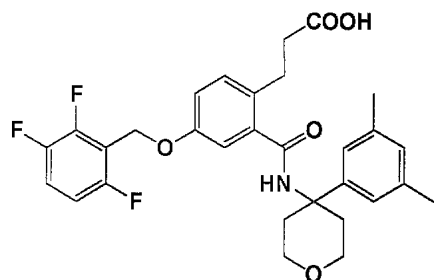


TLC: Rf 0.46(: =9:1);

NMR(300MHz, CDCl₃): 2.23(m, 2H), 2.32(s, 6H), 2.47(m, 2H), 2.68(t, J=7.28Hz, 2H), 2.96(t, J=7.28Hz, 2H), 3.87(m, 4H), 5.19(d, J=1.92Hz, 2H), 6.41(s, 1H), 6.90(s, 1H), 7.06(m, 5H), 7.22(d, J=8.50Hz, 1H), 7.31(m, 2H).

34(185)

3-(2-((4-(3,5-)) -4-))-4-(2,3,6-))

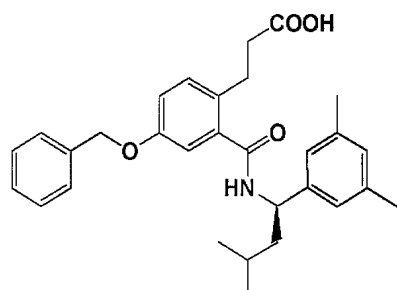


TLC: Rf 0.40(: =9:1);

NMR(300MHz, CDCl₃): 2.23(m, 2H), 2.32(s, 6H), 2.47(m, 2H), 2.67(t, J=7.28Hz, 2H), 2.96(t, J=7.28Hz, 2H), 3.85(m, 4H), 5.13(s, 2H), 6.49(s, 1H), 6.90(m, 2H), 7.00(dd, J=8.52, 2.75Hz, 1H), 7.06(d, J=2.75Hz, 1H), 7.08(s, 2H), 7.20(m, 1H), 7.20(d, J=8.52Hz, 1H).

34(186)

3-(2-(((1R)-3- -1-(3,5-)))-4-)

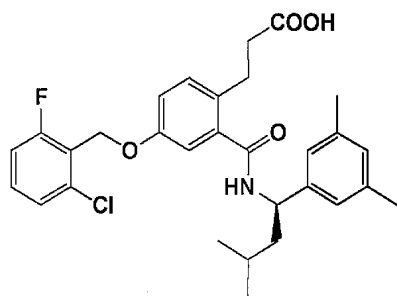


TLC: Rf 0.40(: =9:1);

NMR(300MHz, CDCl₃): 0.98(d, J=6.32Hz, 6H), 1.67(m, 3H), 2.31(s, 6H), 2.69(m, 2H), 2.95(m, 2H), 5.04(s, 2H), 5.14(m, 1H), 6.24(d, J=8.52Hz, 1H), 6.90(s, 1H), 6.96(m, 4H), 7.17(m, 1H), 7.37(m, 5H).

34(187)

3-(2-(((1R)-3-(1-(3,5-)))-4-(2- -6-))

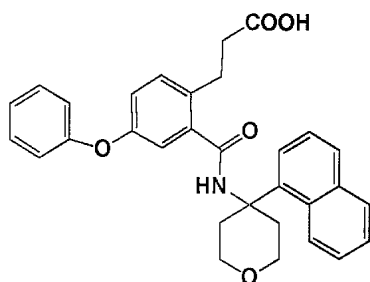


TLC: Rf 0.40(: =9:1);

NMR(300MHz, CDCl₃): 0.98(m, 6H), 1.70(m, 3H), 2.30(s, 6H), 2.70(m, 2H), 2.97(m, 2H), 5.15(m, 3H), 6.28(d, J=8.79Hz, 1H), 6.90(s, 1H), 6.94(s, 2H), 7.03(m, 3H), 7.21(d, J=8.52Hz, 1H), 7.29(m, 2H).

34(188)

3-(2-((4-(-1-) -4-))-4-)

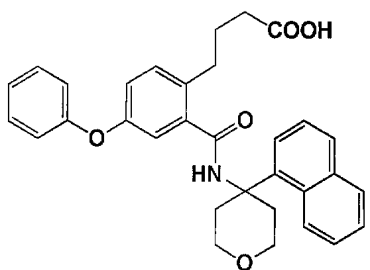


TLC: Rf 0.50(: =9:1);

NMR(300MHz, CDCl₃): 2.49(m, 4H), 2.83(m, 4H), 3.92(m, 4H), 6.88(s, 1H), 6.98(m, 4H), 7.19(m, 3H), 7.34(m, 3H), 7.48(t, J=7.82Hz, 1H), 7.72(d, J=6.59Hz, 1H), 7.78(d, J=8.24Hz, 1H), 7.86(dd, J=8.24, 1.37Hz, 1H), 8.33(d, J=8.52Hz, 1H).

34(189)

4-(2-((4-(-1-) -4-))-4-)

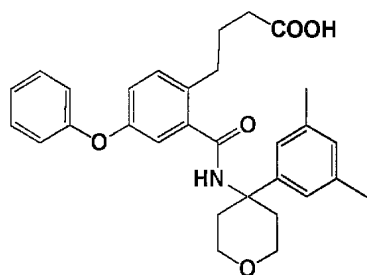


TLC: Rf 0.29(n- : : =50:50:1);

NMR(300MHz, DMSO-d₆): 1.56(m, 2H), 1.91(t, J=7.55Hz, 2H), 2.08(m, 2H), 2.35(m, 2H), 2.77(m, 2H), 3.82(m, 4H), 6.73(d, J=2.47Hz, 1H), 6.99(m, 3H), 7.16(m, 3H), 7.39(m, 3H), 7.47(d, J=7.69Hz, 1H), 7.63(d, J=7.42Hz, 1H), 7.78(d, J=8.24Hz, 1H), 7.89(d, J=7.14Hz, 1H), 8.61(d, J=8.79Hz, 1H), 9.06(s, 1H).

34(190)

4-(2-((4-(3,5-

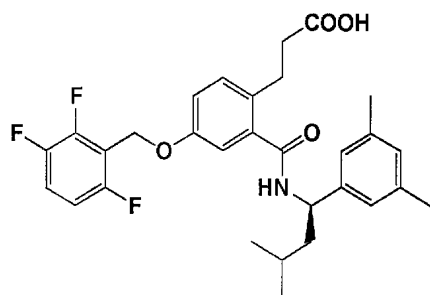


TLC: Rf 0.35(n- : : =50:50:1);

NMR(300MHz, DMSO-d₆): 1.72(m, 2H), 1.88(m, 2H), 2.11(t, J=7.55Hz, 2H), 2.21(s, 6H), 2.38(m, 2H), 2.59(m, 2H), 3.63(m, 2H), 3.74(m, 2H), 6.82(s, 1H), 6.90(d, J=2.75Hz, 1H), 7.01(m, 3H), 7.07(m, 2H), 7.17(m, 1H), 7.25(d, J=8.52Hz, 1H), 7.42(m, 2H), 8.51(s, 1H).

34(191)

3-(2-(((1R)-3-

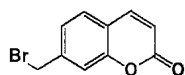


TLC: Rf 0.49(: =9:1);

NMR(300MHz, CDCl₃): 0.97(m, 6H), 1.68(m, 3H), 2.30(s, 6H), 2.69(m, 2H), 2.95(m, 2H), 5.11(s, 2H), 5.17(m, 1H), 6.27(d, J=8.52Hz, 1H), 6.93(m, 6H), 7.17(m, 2H).

55

7-

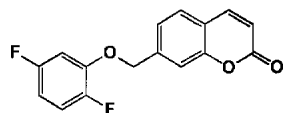


7- (50 g) (510 mg) 가 (1.2) 78 30 N- (56 g) , ' (1) 가 , (76 g) .

NMR(300MHz, CDCl₃): 7.69(d, 9.6Hz, 1H), 7.46(d, J=8.1Hz, 1H), 7.34(d, J=1.8Hz, 1H), 7.30(dd, J=8.1, 1.8Hz, 1H), 6.43(d, 9.6Hz, 1H), 4.52(s, 2H).

56

7-(2,5-

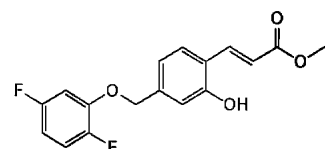


55 (40 g), 2,5- (21.8 g), (46.4 g) DMF(250 Ml) 6
 0 50 가 . , 가 .
 (43.9 g)

NMR(300MHz, DMSO-d₆): 8.05(d, J=9.6Hz, 1H), 7.74(d, J=7.8Hz, 1H), 7.46(brs, 1H), 7.41(brd, J=7.8Hz, 1H), 7.32-7.18(m, 2H), 6.78(m, 1H), 6.49(d, J=9.6Hz, 1H), 5.30(s, 2H).

57

3-(2- -4-(2,5-))

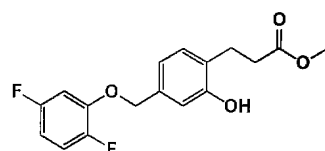


56 (43.9 g) , 42
 (46.5 g)

NMR(300MHz, DMSO-d₆): 10.4(s, 1H), 7.84(d, J=16.2Hz, 1H), 7.64(d, J=7.8Hz, 1H), 7.26(m, 1H), 7.16(m, 1H), 6.98(s, 1H), 6.89(d, J=7.8Hz, 1H), 6.77(m, 1H), 6.61(d, J=16.2Hz, 1H), 5.15(s, 2H), 3.70(s, 3H).

58

3-(2- -4-(2,5-))

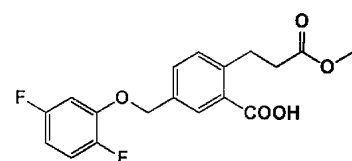


57 (46.5 g) , 24
 (23.6 g)

NMR(300MHz, CDCl₃): 7.20(s, 1H), 7.10(d, J=7.8Hz, 1H), 7.01(ddd, J=10.5, 9.0, 5.4Hz, 1H), 6.96-6.91(m, 2H), 6.71(m, 1H), 6.58(m, 1H), 5.03(s, 2H), 3.70(s, 3H), 2.92-2.88(m, 2H), 2.74-2.70(m, 2H).

59

3-(2- -4-(2,5-))



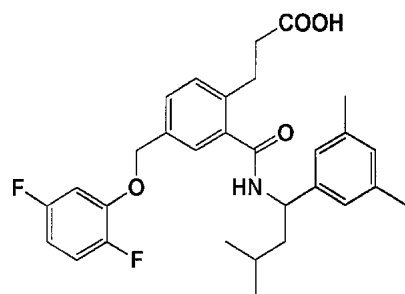
58 (250 mg) , 44 45
 (193 mg)

NMR(300MHz, CDCl₃): 8.11(d, J=1.8Hz, 1H), 7.59(dd, J=8.1, 1.8Hz, 1H), 7.38(d, J=8.1Hz, 1H), 7.04(ddd,

J=10.5, 9.0, 5.1Hz, 1H), 6.74(ddd, J=9.6, 6.6, 3.0Hz, 1H), 6.62(m, 1H), 5.11(s, 2H), 3.67(s, 3H), 3.38-3.33(m, 2H), 2.74-2.69(m, 2H).

35

3-(2-((3- -1-(3,5-))))-4-(2,5-))



59

48

,

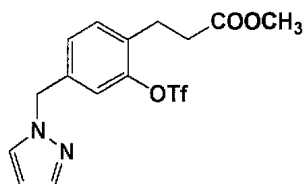
8 3

TLC: Rf 0.51(: =10:1);

NMR(300MHz, CDCl₃): 0.99(d, J=6.32Hz, 6H), 1.70(m, 3H), 2.31(s, 6H), 2.72(t, J=7.00Hz, 2H), 3.03(m, 2H), 5.06(s, 2H), 5.16(m, 1H), 6.31(d, J=8.24Hz, 1H), 6.61(m, 1H), 6.73(m, 1H), 6.90(s, 1H), 6.96(s, 2H), 7.04(m, 1H), 7.29(d, J=8.24Hz, 1H), 7.41(m, 2H).

60

3-(2- -4-(-1-))

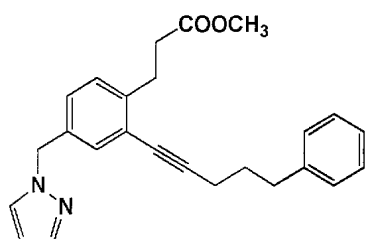


3-(2- -4-(-1-)) (1.00 g) , 44
(1.48 g)

NMR(300MHz, CDCl₃): 7.57(m, 1H), 7.42(d, J=2.1Hz, 1H), 7.32(d, J=8.1Hz, 1H), 7.12(d, J=8.1Hz, 1H), 7.04(s, 1H), 6.32(t, J=2.1Hz, 1H), 3.67(s, 3H), 3.02(t, J=7.5Hz, 2H), 2.64(t, J=7.5Hz, 2H).

36

3-(2-(5- -1-)-4-(-1-))



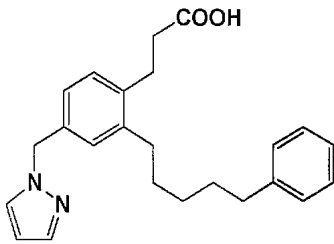
), 60 (54 mg), (300 mg) DMF(3 Ml) 5- -1- (165 mg), ((848 mg) (0.6 Ml)

) 가 , 가 ,
(128 mg)

NMR(300MHz, CDCl₃): 7.55(d, J=2.1Hz, 1H), 7.37(d, J=2.1Hz, 1H), 7.32-7.16(m, 7H), 7.05(dd, J=7.8, 1.8Hz, 1H), 6.28(t, J=2.1Hz, 1H), 5.26(s, 2H), 3.62(s, 3H), 3.08(t, J=7.5Hz, 2H), 2.78(t, J=7.5Hz, 2H), 2.65(t, J=7.5Hz, 2H), 2.44(t, J=7.5Hz, 2H), 1.97-1.87(m, 2H).

37

3-(2-(5-)-4-(-1-))



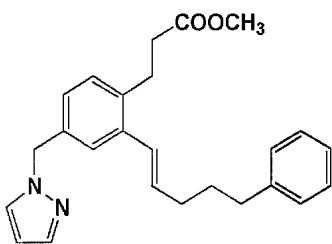
36 (300 mg) (3 Mℓ) 10% (30 mg) 가 THF 1N
(2 Mℓ) (2 Mℓ) 가 1N
(220 mg)

TLC: Rf 0.50(n- : =1:2);

NMR(300MHz, CDCl₃): 7.54(d, J=2.1Hz, 1H), 7.35(d, J=2.1Hz, 1H), 7.30-7.25(m, 2H), 7.19-7.11(m, 4H), 6.99-6.96(m, 2H), 6.27(t, J=2.1Hz, 1H), 5.26(s, 2H), 2.94(t, J=7.8Hz, 2H), 2.63-2.55(m, 6H), 1.70-1.52(m, 4H), 1.45-1.37(m, 2H).

38

3-(2-(5- -1-)-4-(-1-))



) (39 mg) 60 (144 mg) (133 mg) DMF(1 Mℓ) (129 mg), ()
(39 mg) 가 80 가
(131 mg)

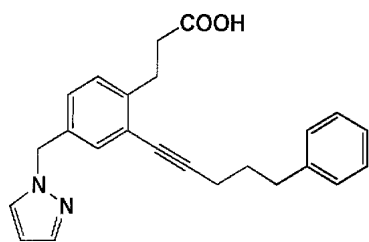
NMR(300MHz, CDCl₃): 7.54(m, 1H), 7.38(d, J=2.1Hz, 1H), 7.32-7.16(m, 6H), 7.11(d, J=7.8Hz, 1H), 7.01-6.97(m, 1H), 6.57(d, J=15.6Hz, 1H), 6.27(t, J=2.1Hz, 1H), 6.13-6.03(m, 1H), 5.27(s, 2H), 3.65(s, 3H), 2.97(t, J=7.8Hz, 2H), 2.67(t, J=7.8Hz, 2H), 2.54(t, J=7.8Hz, 2H), 2.30-2.22(m, 2H), 1.86-1.75(m, 2H).

39(1) 39(2)

36 38 , 3

39(1)

3-(2-(5- -1-)-4-(-1-))

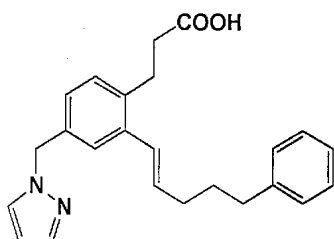


TLC: Rf 0.45(n- : =1:2);

NMR(300MHz, CDCl₃): 7.54(d, J=2.1Hz, 1H), 7.38(d, J=2.1Hz, 1H), 7.32-7.27(m, 3H), 7.22-7.18(m, 4H), 7.05(dd, J=8.1, 2.1Hz, 1H), 6.28(t, J=2.1Hz, 1H), 5.25(s, 2H), 3.09(t, J=7.8Hz, 2H), 2.80-2.68(m, 4H), 2.44(t, J=6.9Hz, 2H), 1.97-1.87(m, 2H).

39(2)

3-(2-(5- -1-)-4-(-1-))

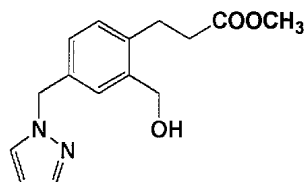


TLC: Rf 0.50(n- : =1:2);

NMR(300MHz, CDCl₃): 7.55(d, J=2.1Hz, 1H), 7.38(d, J=2.1Hz, 1H), 7.31-7.27(m, 3H), 7.21-7.11(m, 4H), 6.99(dd, J=8.1, 2.1Hz, 1H), 6.57(d, J=15.6Hz, 1H), 6.27(t, J=2.1Hz, 1H), 6.08(dt, J=15.6, 6.9Hz, 1H), 5.28(s, 2H), 2.98(t, J=8.1Hz, 2H), 2.70-2.56(m, 4H), 2.30-2.22(m, 2H), 1.86-1.76(m, 2H).

61

3-(4-(-1-)-2-)



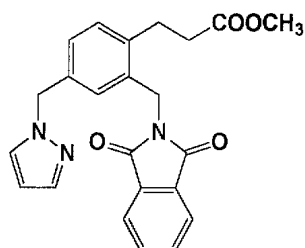
3-(4-(-1-)-2-) (600 mg) THF(8.0 Ml) 0
 - THF(3.2 Ml) 가 2 30 -
 THF(3.5 Ml) 가 , 1 . 가 ,
 (: =1:2) (420 mg)

TLC: Rf 0.59(: =10:1);

NMR(300MHz, CDCl₃): 7.75(m, 1H), 7.34-7.06(m, 4H), 6.32(t, J=2.4Hz, 1H), 5.34(s, 2H), 4.74(d, J=4.8Hz, 2H), 3.67(s, 3H), 3.02(t, J=7.5Hz, 2H), 2.70(t, J=7.5Hz, 2H), 2.23(m, 1H).

62

3-(4-(1-(2-(1,3-2-)))-2-(1,3-2-))



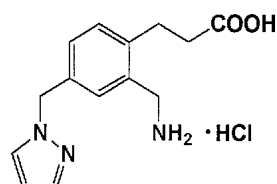
61 (420 mg) THF(4 Mℓ) 0 (0.35 Mℓ)
 (0.13 Mℓ) 가 30 , 가 ,
 , DMF 가 , (370 mg) 가 3
 , 가 , (:
 =2:1) / (5:1) (320
 mg)

TLC: Rf 0.63(: =1:2);

NMR(300MHz, CDCl₃): 7.91-7.82(m, 2H), 7.79-7.70(m, 2H), 7.44(m, 1H), 7.32(m, 1H), 7.15(d, J=7.8Hz, 1H), 7.08(m, 1H), 6.99(m, 1H), 6.20(t, J=2.1Hz, 1H), 5.23(s, 2H), 4.89(s, 2H), 3.69(s, 3H), 3.17(t, J=7.8Hz, 2H), 2.67(t, J=7.8Hz, 2H).

63

3-(4-(1-(2-(1,3-2-)))-2-(1,3-2-))



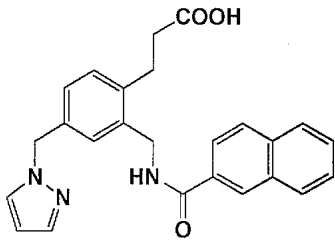
62 (300 mg) 1,2- (1 Mℓ) (1 Mℓ) 1
 (0.043 Mℓ) 가 60 , ,
 , 가 3-(4-(1-(1-(2-(1,3-2-)))-2-(1,3-2-))) ,
 (5 Mℓ) 가 100 1 , ,
 (190 mg)

TLC: Rf 0.09(: =10:1);

NMR(300MHz, CDCl₃): 8.24(m, 3H), 7.81(d, J=2.1Hz, 1H), 7.46(d, J=2.1Hz, 1H), 7.38(m, 1H), 7.27(d, J=7.8Hz, 1H), 7.16(m, 1H), 6.28(t, J=2.1Hz, 1H), 5.30(s, 2H), 4.12-4.00(m, 2H), 2.87(t, J=4.5Hz, 2H), 2.62-2.40(m, 2H).

40

3-(4-(1-(2-(1,3-2-)))-2-(1,3-2-))



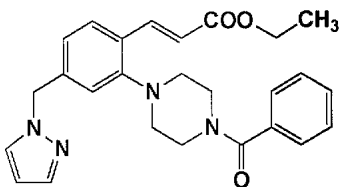
63 (90 mg) (4 Ml) 0 (0.13 Ml) 2-
 (65 mg) 가 0 30 2N ,
 : =100:1) (4.5 mg)

TLC: Rf 0.40(: =10:1);

NMR(300MHz, DMSO-d₆): 9.10(t, J=6.3Hz, 1H), 8.48(s, 1H), 8.33-7.84(m, 4H), 7.77(d, J=2.1Hz, 1H), 7.68-7.55(m, 2H), 7.39(d, J=2.1Hz, 1H), 7.28-7.12(m, 2H), 7.04(d, J=8.4Hz, 1H), 6.21(t, J=2.1Hz, 1H), 5.28(s, 2H), 4.54(d, J=6.3Hz, 2H), 2.93(t, J=7.6Hz, 2H), 2.64-2.40(m, 2H).

41

3-(4-(-1-)-2-(4- -1-))



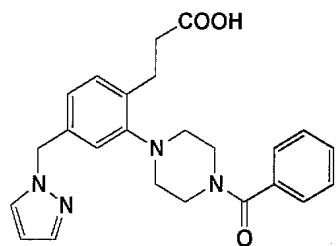
(48 mg) (3 Ml) t- (3 Ml) (0)(60 mg) 2- -2'-(N,N-
) (500 mg) 가 (226 mg) 가 100 5 (598 mg), 3-(2- -4-(-1-)
 1N 1N 가 ,
 가 (2 Ml) ,0 (0.15 Ml) (0.4 Ml)
 가 2 가 ,
 (306 mg)

TLC: Rf 0.45(: =1:2);

NMR(300MHz, CDCl₃): 8.00(d, J=16.2Hz, 1H), 7.58-7.42(m, 8H), 6.90(d, J=8.4Hz, 1H), 6.82(s, 1H), 6.38(d, J=16.2Hz, 1H), 6.32-6.30(m, 1H), 5.32(s, 2H), 4.25(q, J=7.2Hz, 2H), 3.95(m, 2H), 3.61(m, 2H), 2.98-2.85(m, 4H), 1.33(t, J=7.2Hz, 3H).

42

3-(2-(N- -1-)-4-(-1-))



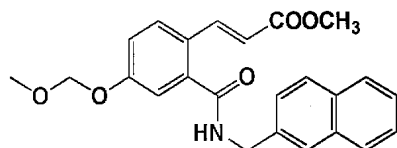
41 (210 mg) (306 mg) , 37

TLC: Rf 0.45();

NMR(300MHz, CDCl₃): 7.56(d, J=2.1Hz, 1H), 7.43(s, 5H), 7.39(d, J=2.1Hz, 1H), 7.18(d, J=8.4Hz, 1H), 6.93-6.91(m, 2H), 6.29(t, J=2.1Hz, 1H), 5.28(s, 2H), 3.92(m, 2H), 3.57(m, 2H), 2.99(t, J=7.8Hz, 2H), 2.91-2.84(m, 4H), 2.69(t, J=7.8Hz, 2H).

43

3-(4- -2-(-2-))

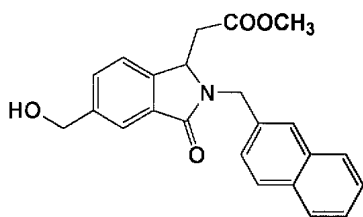


3-(2- -4-) , 44 45 32

TLC: Rf 0.51(: =10:1).

44

2-(5- -2-(-2-) -3- -1-)



43 (672 mg) (7 Mℓ) (478 mg) 가 3

(10 Mℓ) 4N / (10 Mℓ) 가 2 (3 Mℓ) 가 1
 (300 mg) (: =1:5 1:3 1:1)

TLC: Rf 0.26(: =2:1);

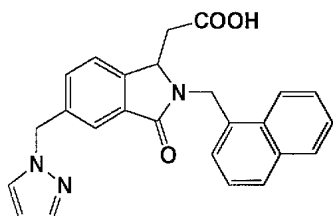
NMR(300MHz, CDCl₃): 7.93(s, 1H), 7.85-7.74(m, 3H), 7.71(s, 1H), 7.58-7.34(m, 5H), 5.35(d, J=15.3Hz, 1H), 4.84(m, 1H), 4.81(s, 2H), 4.59(d, J=15.3Hz, 1H), 3.58(s, 3H), 2.84(dd, J=15.9, 5.4Hz, 1H), 2.62(dd, J=15.9, 6.9Hz, 1H).

TLC: Rf 0.27(: =10:1);

NMR(300MHz, CDCl₃): 7.84-7.62(m, 5H), 7.57-7.33(m, 7H), 6.30(t, J=2.4Hz, 1H), 5.41(d, J=15.0Hz, 1H), 5.40(s, 2H), 4.78(m, 1H), 4.52(d, J=15.0Hz, 1H), 3.02(dd, J=16.2, 4.5Hz, 1H), 2.51(dd, J=16.2, 8.7Hz, 1H).

45(3)

2-(5-(-1-)-2-(-1-) -3- -1-)



44

2

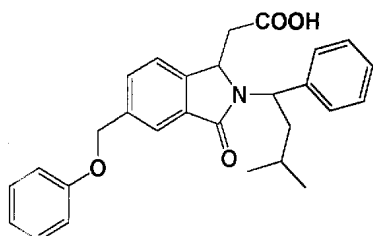
3

TLC: Rf 0.23(: =10:1);

NMR(300MHz, CDCl₃): 8.16-8.08(m, 1H), 7.88-7.77(m, 2H), 7.73(brs, 1H), 7.58-7.33(m, 8H), 6.29(t, J=2.1Hz, 1H), 5.86(d, J=15.3Hz, 1H), 5.39(s, 2H), 4.66(d, J=15.3Hz, 1H), 4.54(dd, J=9.3, 3.3Hz, 1H), 3.12(dd, J=15.9, 3.3Hz, 1H), 2.48(dd, J=15.9, 9.3Hz, 1H).

45(4)

2-(5- -2-(3- -1-) -3- -1-)



44

45

TLC: Rf 0.62(: =10:1).

1

1

5 mg

100

· (2E)-3-(2-(2-(-2-))-4-(-1-))-2-

500 mg

· () 200 mg

· () 100 g

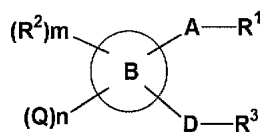
· 9.2 g

(57)

1.

(I) :

(I)



R¹ -COOH, -COOR⁴, -CH₂OH, -CONR⁵SO₂R⁶, -CONR⁷R⁸, -CH₂NR⁵SO₂R⁶, -CH₂NR⁹COR¹⁰, -CH₂NR⁹CONR⁵SO₂R⁶, -CH₂SO₂NR⁹COR¹⁰, -CH₂OCOR⁵SO₂R⁶,
 1,2,4- -5- , 1,2,4- -5- , 1,2,4- -5- , 1,3- -2-
 4- , 1,2,3,5- -2- ,

R⁴ C₁₋₆ -(C₁₋₄)-R¹¹ ,

R¹¹ , C₁₋₄ , -COOH, C₁₋₄ , -CONR⁷R⁸ ,

R⁵ C₁₋₆ ,

R⁶ (i) C₁₋₆ ,

(ii) 1-5 R¹² C₃₋₁₅ , 3-15 ,

(iii) 1-5 R¹² C₃₋₁₅ , C₁₋₆ , C₂₋₆ C₂₋₆ , 3-15 ,

R⁷ R⁸ , (i) ,

(ii) C₁₋₆ ,

(iii) ,

(iv) -COR¹⁷ ,

(v) 1-5 R¹² C₃₋₁₅ , 3-15 ,

(vi) 1-5 R¹² C₃₋₁₅ , C₁₋₄ , C₂₋₆ , 3-15 ,

R⁹ C₁₋₆ ,

R¹⁰ (i)

(ii) C₁₋₆ ,

(iii) 1-5 R¹² C₃₋₁₅ , 3-15 ,

(iv) 1-5 R¹² C₃₋₁₅ , C₁₋₆ , C₂₋₆ C₂₋₆ , 3-15 ,

R¹² (a) C₁₋₆, (b) C₁₋₆, (c) C₁₋₆, (d) , (e) CF₃, (f) , (g) ,
 (h) , (i) -COOR¹³, (j) -NHCOR¹³, (k) -SO₂R¹⁴, (l) -NR¹⁵R¹⁶, (m) C₁₋₄
 C₃₋₇, (n) C₁₋₄ 3
 7 (o) , -COOR¹³, -NHCOR¹³, -SO₂R¹⁴, -NR¹⁵R¹⁶
 C₁₋₄ ,

R¹³ , C₁₋₄ , , (C₁₋₄) ,

R¹⁴ C₁₋₄ ,

R¹⁵ R¹⁶ , , C₁₋₄ , , (C₁₋₄) ,

R¹⁷ C₁₋₄ ,

A (i) ,

(ii) C₁₋₆ ,

(iii) C₂₋₆ ,

(iv) C₂₋₆ ,

(v) -O-(C₁₋₃) ,

(vi) -S-(C₁₋₃) ,

(vii) -NR²⁰-(C₁₋₃) ,

(viii) -CONR²¹-(C₁₋₃) ,

(ix) -(C₁₋₃)-O-(C₁₋₃) ,

(x) -(C₁₋₃)-S-(C₁₋₃) ,

(xi) -(C₁₋₃)-NR²⁰-(C₁₋₃) ,

(xii) -(C₁₋₃)-CONR²¹-(C₁₋₃) ,

(xiii) -Cyc₁ ,

(xiv) -(C₁₋₄)-Cyc₁ ,

(xv) -Cyc₁-(C₁₋₄) ,

A , , (a) (i) , (a) C₁₋₆ , (b) C₁₋₆ , (c) ,
 (d) CHF₂, (e) CF₃, (f) OCHF₂, (g) OCF₃, (h) , (i) (C₁₋₄) 1 6 ,

R²⁰ , C₁₋₄ , -SO₂(C₁₋₄) , C₂₋₅ ,

R²¹ C₁₋₄ ,

Cyc₁ C₁₋₆ , C₁₋₆ , C₁₋₆₁₋₄ , C₂₋₆ , C₂₋₆ , C₃₋₇ , CHF₂, CF₃,
 7 , 3

B C₃₋₁₂ , 3 12 ,

R², C1⁶, C1⁶, C1⁶, C2⁶, C2⁶, CHF₂, CF₃,

m_{0,1} 2,

-D-R³ -A-R¹ B, n₁ 2,

-D-R³ -A-R¹ B, n_{0,1} 2,

Q

(1) (i) -(C1⁴, C2⁴ C2⁴)-Cyc2,

(ii) -(C1⁴)-Z-Cyc3,

(iii) -NR²⁴R²⁵, -S(O)_pR²⁶, C1⁴, -NR²³COR²⁷, -NR²³SO₂R²⁸ -NR²³CONR²⁴R²⁵

(iv) C1⁴ (C1⁴), -NR²³COR²⁷, -COR²⁸, -OSO₂R²⁸, -NR²³SO₂R²⁸ -NR²³CO
NR²⁴R²⁵,

(v) 1⁵ R³⁰, 1 R³⁰ 1
C3⁷, 3⁶,

(vi) 1⁵ R³⁰ C8¹⁵, 7¹⁵

(vii) -T-Cyc5,

(viii) -L-Cyc6-1, -L-(C3⁶), -L-CH₂-(C3⁶), -L-(C2⁴)-Cyc6-2 -L-(
C1⁴)_q-Cyc6-3 (C3⁶ 1⁵ R³⁰),

(2) (i),

(ii),

(iii) (C1⁴),

(iv) C1⁴ (C1⁴),

(v) -(C1⁴)-O-

(3) (i) C2⁶,

(ii) C2⁶,

(iii) 1³ C1⁶,

(iv),

(v),

(vi) -NR³³R³⁴,

(vii) -CONR³³R³⁴,

(viii) -S(O)_p-(C1-4),

(ix) -S(O)_p-CHF₂,

(x) -S(O)_p-NR³³R³⁴,

(xi) -O-(C3-6),

(xii) -O-CHF₂,

(xiii) C3-7,

R²², C1-4, -SO₂-(C1-4), C2-5,

R²³, C1-4, (C1-4),

R²⁴ R²⁵, C1-4, Cyc4 (C1-4)-Cyc4,

R²⁶ C1-4 Cyc4,

R²⁷, C1-4, -OR²⁹ Cyc4,

R²⁸ C1-4, Cyc4 -(C1-4)-Cyc4,

R²⁹, C1-4, Cyc4 (C1-4)-Cyc4,

R³⁰ C1-8, C1-8, C1-8, CF₃, OCF₃, SCF₃, CHF₂, OCHF₂, SCF₂,
 HF₂, -NR³¹R³², -CONR³¹R³², C2-5, (C1-4), C1-4 (C1-4), C1-4 (C1-4), -(C1-4)-CONR³¹R³², -SO₂(C1-4), -NR²³CO-(C1-4),
 -NR²³SO₂-(C1-4), C3-7, 3-7, -(C1-4)-NR³¹R³², -M-(C3-7) -M-(3-7),

R³⁰ C3-7, 3-7, 1-5 (a) (l), (a) C1-6, (b) C2-6, (c) C2-6, (d) C1-6, (e) C1-6, (f), (g) CHF₂, (h) CF₃, (i), (j), (k), (l),

M -O-, -S-, C1-4, -O-(C1-4)-, -S-(C1-4)-, -(C1-4)-O-, -(C1-4)-S-

R³¹ R³² C1-4,

Cyc2 1-5 R³⁰ C3-15, 3-15,

Z -O-, -S(O)_p-, -NR²²-, -NR²³CO-, -NR²³SO₂-, -NR²²-(C1-4)-, -S(O)_p-(C1-4)-, -O-(C2-4)-, -NR²³CO-(C1-4), -NR²³SO₂-(C1-4),

p 0, 1, 2,

Cyc3 1-5 R³⁰ C3-15, 3-15,

Cyc4 1-5 R³⁰ C3-12, 3-12,

T -O-, -NR²²-, -O-(C1-4)-, -S(O)_p-(C1-4)-, -NR²²-(C1-4)-,

Cyc5 1 5 R³⁰ 3 15 ,
 ,
 q 0 1 ,
 L -O- -NR²³ - ,
 Cyc6-1 1 R³⁰ ,
 Cyc6-2 1 5 R³⁰ C3 6 ,
 Cyc6-3 1 5 R³⁰ C7 15 ,
 ,
 R³³ R³⁴ , C1 4 , ,
 NR³³ R³⁴ 1 3 6 , , 1
 D (1) , , 1 2 ,
 , 1 4 R⁴⁰ ,
 (2) , , 3 6 ,
 가 R³ R⁴⁰ R³ R⁴² -(CH₂)_y -(
 , y 1 4) ,
 (3) , , 7 10 ,
 가 R³ 가 R⁴⁰ R³ R⁴² -(CH₂)_y - ,
 ,
 R⁴⁰ (a) C1 8 , (b) C2 8 , (c) C2 8 , (d) , (e) , (f) CF₃ , (g) , (h)
 C1 6 , (i) C2 6 , (j) C2 6 , (k) OCF₃ , (l) -S(O)_p -(C1 6) , (m) -S(O)_p -
 (C2 6) , (n) -S(O)_p -(C2 6) , (o) C2 5 , (p) Cyc9, (q) C1 4 (C1 4) , (r)
 , CF₃ , OCF₃ , 1 2 , C1 4 , -S(O)_p -(C1 6) , Cyc9 C1 4 (C1 4)
 , C1 8 , C2 8 , C2 8
 , 2 R⁴⁰ C3 15 , O, S,
 SO₂ N 1 2 3 15 ,
 , C1 4 , C1 4 , C2 5 , SO₂ (C1 4) , (C1 4)
 1 3 ,
 Cyc9 1 5 R⁴¹ C3 6 , 3 6
 ,
 R⁴¹ C1 4 , C1 4 , C1 4 , C1 4 (C1 4) , , CF₃ , OCF₃ , SCF₃
 , , , C2 5 , -SO₂ -(C1 4) , -NR²³ CO-(C1 4) ,
 ,
 R³ (1) C1 6 ,
 (2) 1 5 R⁴² C3 15 , , 3 15
 ,
 R⁴² (a) C1 6 , (b) C1 6 , (c) C1 6 , (d) , (e) , (f) CF₃ , (g) CHF₂
 , (h) OCF₃ , (i) OCHF₂ , (j) SCF₃ , (k) -NR⁴³ R⁴⁴ , (l) -SO₂ R⁴⁵ , (m) -NR⁴⁶ COR⁴⁷ , (n) , (o)
 , (p) C1 4 (C1 4) , (q) Cyc10, (r) C1 6 -Cyc10, (s) -CO-Cyc10, (t) -W-Cyc10, (u) -(

C1 6)-W-Cyc10, (v) -W-(C1 6)-Cyc10, (w) -(C1 6)-W-(C1 6)-Cyc10
 R 43 R 44 C1 4
 R 45 C1 4
 R 46 C1 4
 R 47 C1 4
 Cyc10 (a) (j) , (a) C1 4 , (b) C2 5 , (c) C1 4 , (d)
 , (e) , (f) C3 12 , (g) , (h) , (i) CF 3 , (j) OCF 3 1 5
 3 12

W -O-, -S(O) p - -NR 48 -
 R 48 C1 4

2.

1 , (l) , n 1 2
 Q가 (1) (i) -(C1 4 , C2 4 C2 4)-Cyc2,
 (ii) -(C1 4)-Z-Cyc3,
 (iii) -NR 24 R 25 , -S(O) p R 26 , -NR 23 COR 27 , -NR 23 SO 2 R 28 -NR 23 CONR 24 R 25
 C1 4
 (iv) C1 4 (C1 4) , -NR 23 COR 27 , -COR 28 , -OSO 2 R 28 , -NR 23 SO 2 R 28 -NR 23 CO
 NR 24 R 25
 (v) 1 5 R 30 , 1 R 30 1
 C3 7 , 3 6
 (vi) 1 5 R 30 C8 15 , 7 15
 (vii) -T-Cyc5,
 (viii) -L-Cyc6-1, -L-(C2 4)-Cyc6-2 -L-(C1 4) q -Cyc6-3
 D가 (1) , 1 2
 , 1 4 R 40
 (2) , 3 6
 가 , R 3 , R 40 R 3 R 40 R 42 -(CH 2) y -

3.

2 , D가 (1) , 1 2
 , 1 4 R 40

4.

2, D가 (2), 가, R³, R⁴⁰, R³, R⁴⁰, R⁴², -(CH₂)_y-

5.

1, (I), n, 1, 2, Q가 (2) (i), (ii), (iii) (C1-4), (iv) C1-4 (C1-4), (v) -(C1-4)-O-(C1-4)-Cyc7, D가 (2), 가, R³

R⁴⁰, R³, R⁴⁰, R⁴², -(CH₂)_y-

6.

1, (I), n, 1, 2, Q가 (3) (i) C2-6, (ii) C2-6, (iii) 1-3 C1-6, (iv), (v), (vi) -NR³³R³⁴, (vii) -CONR³³R³⁴, (viii) -S(O)_p-(C1-4), (ix) -S(O)_p-CHF₂, (x) -S(O)_p-NR³³R³⁴, (xi) -O-(C3-6), (xii) -O-CHF₂, (xiii) C3-7, D가 (1), 1, 4, 2, R⁴⁰

7.

1, (I), n 0, ,
 D가 (1), , 1 2, ,
 1 4 R 40,
 ,
 (2), , 3 6,
 가 , R 3, R 40 R 3 R 40 R 42 - (CH 2) y -

8.

1, (I), n 0, 1 2, ,
 Q가 (1) (i) -(C1 4, C2 4 C2 4)-Cyc2,
 (ii) -(C1 4)-Z-Cyc3,
 (iii) -NR 24 R 25, -S(O) p R 26, C1 4, -NR 23 COR 27, -NR 23 SO 2 R 28 -NR 23 CONR 24 R 25
 (iv) C1 4 (C1 4), -NR 23 COR 27, -COR 28, -OSO 2 R 28, -NR 23 SO 2 R 28 -NR 23 CO
 NR 24 R 25,
 (v) 1 5 R 30, 3 6, 1 R 30 1
 C3 7,
 (vi) 1 5 R 30 C8 15, 7 15
 ,
 (vii) -T-Cyc5,
 (viii) -L-Cyc6-1, -L-(C2 4)-Cyc6-2 -L-(C1 4) q -Cyc6-3,
 (2) (i),
 (ii),
 (iii) (C1 4),
 (iv) C1 4 (C1 4),
 (v) -(C1 4)-O-(C1 4)-Cyc7,
 (3) (i) C2 6,
 (ii) C2 6,
 (iii) 1 3 C1 6,
 (iv),
 (v),
 (vi) -NR 33 R 34,
 (vii) -CONR 33 R 34,

(viii) -S(O)_p-(C1 4) ,

(ix) -S(O)_p-CHF₂ ,

(x) -S(O)_p-NR³³R³⁴ ,

(xi) -O-(C3 6) ,

(xii) -O-CHF₂ ,

(xiii) C3 7 ,

D가 (3) , ,

, 가 R³ , R⁴⁰ R³ R⁴⁰ R⁴² -(CH₂)_y .

9.

3 ,

(1) (2E)-3-(2-(-2-)-4-(-1-))-2- ,

(2) 3-(2- -4-) ,

(3) (2E)-3-(2-(-2-)-4-)-2- ,

(4) (2E)-3-(2-(-2-)-4-(-1-))-2- ,

(5) (2E)-3-(2- -4-)-2- ,

(6) 3-(2-(-2-)-4-) ,

(7) 3-(2-(-2-)-4-(-1-)) ,

(8) (2E)-N- -3-(2-(-2-)-4-)-2- ,

(9) (2E)-N-(5- -2-)-3-(2-(-2-)-4-)-2- ,

(10) (2E)-N- -3-(2-(-2-)-4-(-1-))-2- ,

(11) (2E)-N-(5- -2-)-3-(2-(-2-)-4-(-1-))-2- ,

(12) (2E)-N-(5- -2-)-3-(2- -4-(-1-))-2- ,

(13) (2E)-N-(5- -2-)-3-(2- -4-)-2- ,

(14) N-(5- -2-)-3-(2-(-2-)-4-) ,

(15) N-(5- -2-)-3-(2-(-2-)-4-(-1-)) ,

(16) 2-(5-(-1-)-2-(-2-) -3- -1-) ,

(17) 2-(5- -2-(-2-) -3- -1-) ,

(18) 2-(5-(4-)-2-(-2-) -3- -1-) ,

- (19) 2-(5-(-1-)-2-(-1-) -3- -1-) ,
- (20) 2-(5- -2-(3- -1-) -3- -1-) ,
- (21) N-(3,4-)-2-(5-(-1-)-2-(-1-) -3- -1-) ,
- (22) N-(3,4-)-2-(5- -2-(3- -1-) -3- -1-) ,
- (23) 3-(2-((3-))-4-) ,
- (24) N- -3-(2-((3-))-4-) ,

10.

4 ,

- (1) (2E)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (2) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(-1-))-2- ,
- (3) (2E)-3-(2-(2-(2,5,7,8- -2-))-4-(-1-))-2- ,
- (4) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(-1-))-2- ,
- (5) (2E)-3-(2-(3-)-4-(-1-))-2- ,
- (6) (2E)-3-(2-(4-)-4-(-1-))-2- ,
- (7) (2E)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (8) (2E)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (9) (2E)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (10) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(2- -1-))-2- ,
- (11) 3-(2-(2-(-2-))-4-(-1-)) ,
- (12) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(2 H-1,2,3- -2-))-2- ,
- (13) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(1H-1,2,3- -1-))-2- ,
- (14) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (15) (2E)-3-(2-(2-(-2-))-4-(-2-))-2- ,
- (16) (2E)-3-(2-(2-(-2-))-4-(-3-))-2- ,
- (17) 4-(2-(2-(-2-))-4-(-1-)) ,

- (18) (2E)-3-(2-(2-(-1-))-4-(-1-))-2- ,
- (19) (2E)-3-(2-(3-(-2-))-4-(-1-))-2- ,
- (20) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (21) 2-(2-(2-(-2-))-4-(-1-)) ,
- (22) (2E)-3-(2-(2-(-2-))-4-(2- -1-))-2- ,
- (23) 2-(2-(2-(-2-))-4-(-1-)) ,
- (24) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (25) (2E)-3-(2-(2-)-4-(-1-))-2- ,
- (26) (2E)-3-(2-(-2-)-4-(-1-))-2- ,
- (27) (2E)-3-(2-((3E)-4- -3-)-4-(-1-))-2- ,
- (28) (2E)-3-(2-(2- -3-)-4-(-1-))-2- ,
- (29) (2E)-3-(2-(2-(1,4- -6-))-4-(-1-))-2- ,
- (30) (2E)-3-(2-(2-(1,4- -2-))-4-(-1-))-2- ,
- (31) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (32) (2E)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (33) (2E)-3-(2-(2-(N- -N-))-4-(-1-))-2- ,
- (34) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (35) (2E)-3-(2-(2-())-4-(-1-))-2- ,
- (36) (2E)-3-(2-(2- -3-)-4-(-1-))-2- ,
- (37) (2E)-3-(2-(2- -2-(-2-))-4-(-1-))-2- ,
- (38) (2E)-3-(2-(-1-)-3-(2-(-2-)) -4-)-2- ,
- (39) (2E)-3-(3-(2-(-2-))-4-(-1-) -2-)-2- ,
- (40) (2E)-3-(2-(2-(-2-))-4-(N- -N-))-2- ,
- (41) (2E)-3-(2-(2-(-2-))-4-(N- -N-))-2- ,
- (42) (2E)-3-(2-(2-(-2-))-4-(N- -N-))-2- ,
- (43) (2E)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (44) 3-(2-((-2-))-4-(-1-)) ,
- (45) 3-(2-(2-(-2-))-4-(-1-)) ,
- (46) 3-(2-(2-(-2-))-4-(4- -1-)) ,

- (47) 3-(2-(2-(-2-))-4-(3,5- -1-)) ,
- (48) 3-(2-(2-(-2-))-4-) ,
- (49) 3-(2-(2-(1,1'- -4-))-4-(-1-)) ,
- (50) 3-(2-(2-(-2-))-4-) ,
- (51) 3-(2-(2-(-2-))-4-(N- -N-)) ,
- (52) 3-(2-(2-(-2-))-4-(N- -N-)) ,
- (53) 3-(2-(2-(-2-))-4-) ,
- (54) 3-(2-(2-(1,1'- -2-))-4-(-1-)) ,
- (55) 3-(2-(2-(-2-))-4-(-1-)) ,
- (56) 3-(2-(2-(-2-))-4-(3- -2- -1-)) ,
- (57) 3-(2-(2-(-2-))-4-(2- -1-)) ,
- (58) 3-(2-(2-(1,1'- -3-))-4-(-1-)) ,
- (59) 3-(2-(2-(-2-))-4-) ,
- (60) 3-(2-(2-(-2-))-4-) ,
- (61) 3-(2-(2-(-2-))-4-(2- -3-)) ,
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- (63) 3-(2-(2-(-3-))-4-(-1-)) ,
- (64) 3-(2-(2-(-2-))-4-(-3-)) ,
- (65) 3-(2-(2-(-1-))-4-(-1-)) ,
- (66) 3-(2-(2-(1- -2-))-4-(-1-))
- (67) 3-(2-(2-(-2-))-4-(-1-))
- (68) 3-(2-(2-(-2-))-4-(-1-)) ,
- (69) 3-(2-(2-(-2-))-4-(2- -5-)) ,
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- (74) 3-(2-(2-(-2-))-4-(4- -1-)) ,
- (75) 3-(2-(4- -2-(-2-))-4-(-1-)) ,

- (76) 3-(2-(2-(-2-))-4-(2- -3-)) ,
- (77) 3-(2-(2- -2-(-2-))-4-(-1-)) ,
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- (79) 3-(2-(4- -2-)-4-) ,
- (80) 3-(2-(2-(-2-))-4-) ,
- (81) 3-(2-(2-(-2-))-4-) ,
- (82) 3-(2-(2-(-2-))-4-(N- -N-)) ,
- (83) 3-(2-(2-(-2-))-4-(N- -N-)) ,
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- (85) 3-(2-(2-(-2-))-4-(2- -5-)) ,
- (86) 3-(2-(2-(-2-))-4-(3-)) ,
- (87) 3-(2-(2-(-2-))-4-(2-)) ,
- (88) 3-(2-(2-(-2-))-4-(2-)) ,
- (89) 3-(2-(2-)-4-) ,
- (90) 3-(2-(2-)-4-(-1-)) ,
- (91) 3-(2-(4- -2-(3,5-))-4-(-1-)) ,
- (92) 3-(2-(4- -2-(4- -3-))-4-(-1-)) ,
- (93) 2-(2-(2-)-4-(-1-)) ,
- (94) 2-(2-(2-(-2-))-4-(-1-)) ,
- (95) 2-(2-(4- -2-)-4-(-1-)) ,
- (96) 2-(2-(4- -2-(3,5-))-4-(-1-)) ,
- (97) 3-(2-(4- -2-(4- -1,3- -6-))-4-(-1-)) ,
- (98) 3-(2-(2-(-2-))-4-(3-)) ,
- (99) 3-(2-(2-(-2-))-4-(2-)) ,
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- (104) 3-(2-(2- -3-)-4-(-1-)) ,

- (105) 3-(2-(2- -3-)-4-(-1-)) ,
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- (107) 3-(2-(2-(-2-))-4-(-1-)-5-) ,
- (108) 3-(2-(2-(-1-))-4-(-1-)) ,
- (109) 3-(2-(4- -2-(4- -3-))-4-(3-)) ,
- (110) 3-(2-(4- -2-(4- -3-))-4-) ,
- (111) 3-(2-(2-(2- -1-))-4-(-1-)) ,
- (112) 3-(2-(2-(1H- -1-))-4-(-1-)) ,
- (113) 3-(2-(2-(2 H- -2-))-4-(-1-)) ,
- (114) 3-(2-(2-(1H- -1-))-4-(-1-)) ,
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- (121) 3-(2-(2-(-2-))-4-(4- -1-)) ,
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- (124) 3-(2-(2-(-1-))-4-(-1-)) ,
- (125) 3-(2-(2-(2-))-4-(-1-)) ,
- (126) 3-(2-(2-(2-))-4-(-1-)) ,
- (127) 3-(2-(2-(2-))-4-(-1-)) ,
- (128) 3-(2-(2-(2-))-4-(-1-)) ,
- (129) 3-(2- -4-(-1-)) ,
- (130) 3-(2-(-1-)-4-(-1-)) ,
- (131) 3-(2-(-2-)-4-(-1-)) ,
- (132) 3-(2-(3-)-4-) ,
- (133) 3-(2-(4-)-4-) ,

- (134) 3-(2-(2-(-2-))-4-(4- -1-)) ,
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- (136) 2-(N- -N-(2-(2-(-2-))-4-(-1-))) ,
- (137) 2-(N- -N-(2-(2-(-2-))-4-(-1-))) ,
- (138) 2-(2-(-2-))-4-(-1-) ,
- (139) 3-(2-(2-(-2-))-4-(-2-)) ,
- (140) 3-(2-(2-(-2-))-4-(-2-)) ,
- (141) 3-(2-(2-)-4-(-1-)) ,
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- (143) 3-(2-((1-))-4-(-1-)) ,
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- (145) 2-(2-(2-(-2-))-4-(-1-)) ,
- (146) 3-(2-(2-(1- -1,2,3,4- -2-))-4-(-1-)) ,
- (147) 3-(2-(2-(-2-))-4-(2-(-1-))) ,
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- (149) 3-(2-(2-(-3-))-4-(-1-)) ,
- (150) 3-(2-(3-)-4-(-1-)) ,
- (151) 3-(2-(2-)-4-(-1-)) ,
- (152) 3-(2-(2-(N- -N-))-4-(-1-)) ,
- (153) 3-(2-(2-)-4-(3-)) ,
- (154) 3-(2-(2-)-4-(2- -4-)) ,
- (155) 3-(2-(3-)-4-(-1-)) ,
- (156) 3-(2-(4-)-4-(-1-)) ,
- (157) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-(-1-))-2- ,
- (158) 3-(2-(3,3-)-4-(-1-)) ,
- (159) 3-(2-(2-(N,N-))-4-(-1-)) ,
- (160) 3-(2-(2-(4- -1-))-4-(-1-)) ,
- (161) 3-(2-(2-(4- -1,2,3,6- -1-))-4-(-1-)) ,

- (162) 3-(2-(2-(4- -1-))-4-(-1-)) ,
- (163) 3-(2-(2-(-10-))-4-(-1-)) ,
- (164) 4-(2-(2-)-4-(3-)) ,
- (165) 4-(2-(2-(-2-))-4-(3-)) ,
- (166) 2-(2-(2-(-2-))-4-(-1-)) ,
- (167) 3-(2-(2-(2- -1-))-4-(-1-)) ,
- (168) 3-(2-(5-)-4-(-1-)) ,
- (169) 3-(2-(3-(N- -N-))-4-(-1-)) ,
- (170) 3-(2-(2-(N- -N-))-4-(-1-)) ,
- (171) 3-(2-(2-(N-(2-)-N-))-4-(-1-)) ,
- (172) 3-(2-(2-(3-(-1-)))-4-(-1-)) ,
- (173) 3-(2-(2-(3-(-4-)))-4-(-1-)) ,
- (174) 3-(2-(2-(-2-))-4-(-1-)) ,
- (175) 3-(2-(2- -2-(-2-))-4-(3-)) ,
- (176) 3-(2-(2-(1,2,3,4- -2-))-4-(-1-)) ,
- (177) 3-(2-(2-(9- -2-))-4-(-1-)) ,
- (178) 3-(2-(2-(3-(4- -1-)))-4-(-1-)) ,
- (179) 3-(2-(2-(3-(4- -1-)))-4-(-1-)) ,
- (180) 3-(2-(2-)-4-(-1-)) ,
- (181) 3-(2-(2-(-2-))-4-(N- -N-)) ,
- (182) 3-(2-(2-(-2-))-4-(N- -N-)) ,
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- (184) (2E)-3-(2-((-1-))-4-(-1-))-2- ,
- (185) 3-(2-((-1-))-4-(-1-)) ,
- (186) (2E)-3-(2-((-2-))-4-(-1-))-2- ,
- (187) (2E)-3-(2-(N-(-2-)-N-)-4-(-1-))-2- ,
- (188) (2E)-3-(2-((-2-))-4-)-2- ,
- (189) (2E)-3-(2-((-1-))-4-)-2- ,
- (190) 3-(2-((-1-))-4-) ,

- (191) (2E)-3-(2-(1-(-1-)))-4-)-2- ,
- (192) 3-(2-((-1-))-4-(2,5-)) ,
- (193) 3-(2-((-1-))-4-(2,5-)) ,
- (194) 3-(2-((-1-))-4-(2- -5-)) ,
- (195) 3-(2-((3- -1-(-1-)))-4-) ,
- (196) 3-(2-((1- -1-(-1-)))-4-) ,
- (197) 3-(2-((-1-))-4-(2,6-)) ,
- (198) 3-(2-((-1-))-4-(2- -6-)) ,
- (199) 3-(2-((-1-))-4-(3-)) ,
- (200) 3-(2-(((1R)-1-(-1-)))-4-) ,
- (201) 3-(2-((1-(-1-)))-4-) ,
- (202) 3-(2-(((1S)-1-(-1-)))-4-) ,
- (203) 3-(2-((1-(-2-)))-4-) ,
- (204) 3-(2-((4- -1-))-4-) ,
- (205) 3-(2-((-1-))-4-(2-)) ,
- (206) 3-(2-((-1-))-4-(2-)) ,
- (207) 4-(2-((3- -1-(-1-)))-4-) ,
- (208) 3-(2-((4- -1-))-4-) ,
- (209) 3-(2-((-4-))-4-) ,
- (210) 3-(2-((3- -1-(-1-)))-4-(-1-)) ,
- (211) 3-(2-((-1-))-4-(2-)) ,
- (212) 3-(2-((-1-))-4-(2-)) ,
- (213) 3-(2-((3- -1-(-1-)))-4-(-3-)) ,
- (214) 3-(2-((-1-))-4-(2-)) ,
- (215) 3-(2-((-1-))-4-(2-)) ,
- (216) 3-(2-((3- -1-))-4-) ,
- (217) 3-(2-((-1-))-4-(2-)) ,
- (218) 3-(2-((-1-))-4-(2-)) ,
- (219) 3-(2-((-1-))-4-(2-)) ,

- (220) 3-(2-((3- -1-(4-)))-4-) ,
- (221) 3-(2-(((1R)-1-(-1-)))-4-(-2-)) ,
- (222) 3-(2-((3- -1-(4-)))-4-) ,
- (223) 3-(2-((3- -1-(4-)))-4-) ,
- (224) 3-(2-((3- -1-))-4-(-3-)) ,
- (225) 3-(2-((3- -1-))-4-(-4-)) ,
- (226) 3-(2-((1-))-4-) ,
- (227) 3-(2-((3- -1-))-4-(-2-)) ,
- (228) 3-(2-((3- -1-))-4-) ,
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- (230) 3-(2-((1-))-4-) ,
- (231) 3-(2-((1-))-4-) ,
- (232) 3-(2-((3- -1-))-4-(-2-)) ,
- (233) 3-(2-((3- -1-))-4-(-2-)) ,
- (234) 3-(2-((3- -1-))-4-(2- -3-)) ,
- (235) 3-(2-((3- -1-))-4-) ,
- (236) 3-(2-((3- -1-))-4-(-2-)) ,
- (237) 3-(2-((3- -1-))-4-(1- -2-)) ,
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- (239) 3-(2-((3- -1-))-4-(2-)) ,
- (240) 3-(2-((3- -1-))-4-(2-)) ,
- (241) 3-(2-((3- -1-))-4-(2-)) ,
- (242) 3-(2-((2-))-4-) ,
- (243) 3-(2- -4-) ,
- (244) 3-(2-((3- -1- -3-))-4-) ,
- (245) 3-(2- -4-) ,
- (246) 3-(2-((3- -1-(4-)))-4-) ,
- (247) 3-(2-((3- -1-(4-)))-4-) ,
- (248) 3-(2-((3- -1-(3-)))-4-) ,

- (249) 3-(2-((3- -1-(3-)))-4-) ,
- (250) 3-(2-((3- -1-(4-)))-4-) ,
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- (252) 3-(2-((3- -1-(3- -4-)))-4-) ,
- (253) 3-(2-((3- -1-(3-)))-4-) ,
- (254) 3-(2-((3- -1-(3,4,5-)))-4-) ,
- (255) 3-(2-((3- -1-(3,5-)))-4-) ,
- (256) 3-(2-((3- -1-(3-)))-4-) ,
- (257) 3-(2-((3- -1-(4-)))-4-) ,
- (258) 3-(2-((3- -1-(4-)))-4-) ,
- (259) 3-(2-((3- -1-(4- -3-)))-4-) ,
- (260) 3-(2-((3- -1-(3- -4-)))-4-) ,
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- (264) 3-(2-((3- -1-(4-)))-4-(2-)) ,
- (265) 3-(2-((3- -1-(4-)))-4-(2-)) ,
- (266) 3-(2-((3- -1-(4-)))-4-(3-)) ,
- (267) 3-(2-((3- -1-(4-)))-4-(2- -5-)) ,
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- (269) 3-(2-((3- -1-(4-)))-4-(-1-)) ,
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- (271) 3-(2-((3- -1-(2-)))-4-) ,
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- (273) 3-(2-((3- -1-(3-)))-4-) ,
- (274) 3-(2-((3- -1-(3,5-)))-4-) ,
- (275) 3-(2-((3- -1-(3,5- -4-)))-4-) ,
- (276) 3-(2-((3- -1-(5- -2-)))-4-) ,
- (277) 3-(2-((3- -1-(4-)))-4-) ,

- (278) 3-(2-((3- -1-(3-)))-4-) ,
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- (286) 3-(2-((3- -1-(1,4- -6-)))-4-) ,
- (287) 3-(2-((3- -1-(4-)))-4-) ,
- (288) 3-(2-((3- -1-(3,4,5-)))-4-) ,
- (289) 3-(2-((3- -1-(2- -3,4-)))-4-) ,
- (290) 3-(2-((3- -1-(4-)))-4-) ,
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- (292) 3-(2-((3- -1-(2- -6-)))-4-) ,
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- (296) 2-(2-((3- -1-))-4-(2-)) ,
- (297) 3-(2-((3- -1-(4-)))-4-) ,
- (298) 3-(2-((3- -1-(3- -4-)))-4-) ,
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- (301) 3-(2-((3- -1-(3,4-)))-4-) ,
- (302) 3-(2-((3- -1-(4- -1,3- -6-)))-4-) ,
- (303) 3-(2-((3- -1-(3-)))-4-) ,
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- (306) 3-(2-((3- -1-(2,3,5,6-)))-4-) ,

- (307) 3-(2-((3- -1-(2-)))-4-) ,
- (308) 3-(2-((3- -1-(2,5-)))-4-) ,
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- (310) 3-(2-((3- -1-(3,4-)))-4-) ,
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- (315) 3-(2-((3- -1-(2,3-)))-4-) ,
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- (322) 3-(2-((3- -1-(4-)))-4-) ,
- (323) 3-(2-((3- -1-(3- -2-)))-4-) ,
- (324) 3-(2-((3- -1-(2,3,4-)))-4-) ,
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- (327) 3-(2-((3- -1-(4- -2-)))-4-) ,
- (328) 3-(2-((3- -1-(2,4-)))-4-) ,
- (329) 3-(2-((3- -1-(4-)))-4-) ,
- (330) 3-(2-((3- -1-(4- -3-)))-4-) ,
- (331) 3-(2-((3- -1-(4-)))-4-) ,
- (332) 3-(2-((3- -1-(3,4-)))-4-) ,
- (333) 3-(2-((3- -1-(2,3,4-)))-4-) ,
- (334) 3-(2-((3- -1-(2,4- -3-)))-4-) ,
- (335) 3-(2-((3- -1-(-2-)))-4-) ,

- (336) 3-(2-((3- -1-(2,4,5-)))-4-) ,
- (337) 3-(2-((3- -1-(3- -2-)))-4-) ,
- (338) 3-(2-((3- -1-(2,3- -4-)))-4-) ,
- (339) 3-(2-((3- -1-(2,5- -4-)))-4-) ,
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- (348) 3-(2-((3- -1-(-3-)))-4-) ,
- (349) 3-(2-((3- -1-(2,5-)))-4-) ,
- (350) 3-(2-((3- -1-(3,4-)))-4-) ,
- (351) 3-(2-((3- -1-(1,3- -4-)))-4-) ,
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- (353) 3-(2-(N- -N-)-4-) ,
- (354) 3-(2-((3- -1-(3- -5-)))-4-) ,
- (355) 3-(2-((3- -1-(4- -2-)))-4-) ,
- (356) 3-(2-((3- -1-(2,4-)))-4-) ,
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- (361) 3-(2-((3- -1-))-4-(-1-)) ,
- (362) 3-(2-((3- -1-))-4-(2-)) ,
- (363) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (364) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,

- (365) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (366) 3-(2-((3- -1-(3,5-)))-4-(-3-)) ,
- (367) 3-(2-((3- -1-(4- -1,3- -6-)))-4-(2- -5-)) ,
- (368) 3-(2-((3- -1-(4- -1,3- -6-)))-4-(3-)) ,
- (369) 3-(2-((3- -1-(4- -1,3- -6-)))-4-(2-)) ,
- (370) 3-(2-((3- -1-(3,5-)))-4-) ,
- (371) 3-(2-((3- -1-(3- -5-)))-4-) ,
- (372) 3-(2-((3- -1-(4- -3-)))-4-(2-)) ,
- (373) 3-(2-((3- -1-(4- -3-)))-4-(2- -5-)) ,
- (374) 3-(2-((3- -1-(3,5-)))-4-) ,
- (375) 3-(2-((3- -1-(3,5-)))-4-) ,
- (376) 3-(2-((3- -1-))-4-(1-)) ,
- (377) 3-(2-((2- -2-))-4-) ,
- (378) 3-(2-((2-))-4-) ,
- (379) 3-(2-((3- -1-))-4-(2-)) ,
- (380) 3-(2-(3- -4-)-4-) ,
- (381) 3-(2-(4- -1-)-4-) ,
- (382) 3-(2-((2- -1-(3,5-)))-4-(2- -5-)) ,
- (383) 3-(2-((4- -2-))-4-) ,
- (384) 3-(2- -4-) ,
- (385) 3-(2-((2- -1-(3,5-)))-4-(2- -5-)) ,
- (386) 3-(2-((1-(3,5-)))-4-(2- -5-)) ,
- (387) 3-(2-((3- -1-))-4- -5-) ,
- (388) 3-(2-((1- -2-))-4-) ,
- (389) 3-(2-((3- -1-))-4-(-2-)) ,
- (390) 3-(2-((3- -1-))-4-(1,3- -2-)) ,

- (391) 3-(2-((3- -1-))-4-(-1-)) ,
- (392) 3-(2-((4- -1- -2-))-4-) ,
- (393) 3-(2-((3- -1-))-4- -5-) ,
- (394) 3-(2-((-2-))-4-(-1-)) ,
- (395) 3-(2-((3- -1-))-4-) ,
- (396) 3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (397) 3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (398) 3-(2-((3- -1-))-3- -4-) ,
- (399) 2-(2-(3- -1-))-4-) ,
- (400) 3-(2-((3- -3- -1-))-4-) ,
- (401) 4-(2-((2-(-1-)))-4-(4-)) ,
- (402) (2E)-3-(2-((2-(-2-)))-4-(-1-))-2- ,
- (403) 2-(2-((4- -2-(-1-)))-4-) ,
- (404) 2-(2-((4- -2-(-1-)))-4-) ,
- (405) 2-(2-((4- -2-(-1-)))-4-) ,
- (406) 2-(2-((4- -2-(-1-)))-4-(N- -N-)) ,
- (407) 2-(2-((4- -2-(-1-)))-4-(-1-)) ,
- (408) 4-(2-((2-(-1-)))-4-) ,
- (409) 2-(2-((4- -2-(-1-)))-4-) ,
- (410) 4-(2-((2-(-1-)))-4-) ,
- (411) 4-(2-((2-(-1-)))-4-) ,
- (412) 4-(2-((2-(-1-)))-4-) ,
- (413) 4-(2-((2-(-1-)))-4-) ,
- (414) 4-(2-((2-(-1-)))-4-) ,
- (415) 4-(2-((2-(-1-)))-4-) ,
- (416) 4-(2-((2-(-1-)))-4-(N- -N-)) ,
- (417) 4-(2-((2-(-1-)))-4-) ,
- (418) 4-(2-((2-(-1-)))-4-) ,
- (419) 4-(2-((4- -2-(-1-)))-4-) ,

- (420) 4-(2-((2-(-1-)))-4-(2- -1-)) ,
- (421) 4-(2-((2-(-1-)))-4-(-3-)) ,
- (422) 4-(2-((2-(-1-)))-4-) ,
- (423) 4-(2-((2-(-1-)))-4-) ,
- (424) 4-(2-((2-(-1-)))-4-) ,
- (425) 4-(2-((2-(-1-)))-4-) ,
- (426) 3-(2-((4- -2-(-1-)))-4-) ,
- (427) 4-(2-((4- -2-(-1-)))-4-(-1-)) ,
- (428) 4-(2-((2-(-1-)))-4-) ,
- (429) 4-(2-((2-(-1-)))-4-(-4-)) ,
- (430) 4-(2-((2-(-1-)))-4-(2-)) ,
- (431) 4-(2-((2-(-1-)))-4-(-2-)) ,
- (432) 4-(2-((2-(-1-)))-4-(N- -N-)) ,
- (433) 4-(2-((2-(-1-)))-4-(N- -N-)) ,
- (434) 4-(2-((2-(4- -1-)))-4-) ,
- (435) 4-(2-((2-))-4-) ,
- (436) 3-(2-((4- -2-))-4-) ,
- (437) 3-(2-((2-))-4-) ,
- (438) 3-(2-((2-))-4-) ,
- (439) 3-(2-((2-))-4-) ,
- (440) 4-(2-((2-))-4-) ,
- (441) 4-(2-((2-))-4-) ,
- (442) 4-(2-((2-(4- -1-)))-4-) ,
- (443) 4-(2-((2-(-1-)))-4-) ,
- (444) 4-(2-((2-(-1-)))-4-) ,
- (445) 4-(2-((2-(4- -1-)))-4-) ,
- (446) 4-(2-((2-(-1-)))-4-(4-)) ,
- (447) 4-(2-((2-(-3-)))-4-) ,
- (448) 2-(2-((2-))-4-) ,

- (449) 2-(2-((2-(-1-)))-4-) ,
- (450) 4-(2-((2-(-1-)))-4-) ,
- (451) 4-(2-((2-(-1-)))-4-(-2-)) ,
- (452) 4-(2-((2-(-1-)))-4-(3-)) ,
- (453) 3-(2-(N- -N-)-4-) ,
- (454) (2E)-3-(2-(N- -N-)-4-)-2- ,
- (455) 4-(2-((2-(-1-)))-4-(3-)) ,
- (456) 4-(2-((2-(-1-)))-4-) ,
- (457) 4-(2-((2-(-1-)))-4-(-2-)) ,
- (458) 4-(2-((2-(-1-)))-4-(3-)) ,
- (459) 4-(2-((2-(-1-)))-4-(3-)) ,
- (460) 4-(2-((2-(-1-)))-4-(3-)) ,
- (461) 4-(2-((2-(-1-)))-4-(4-)) ,
- (462) 4-(2-((2-(-1-)))-4-(2-)) ,
- (463) 4-(2-((2-(-1-)))-4-(3- -4-)) ,
- (464) 4-(2-((2-(2-)))-4-) ,
- (465) 4-(2-((2-(3-)))-4-) ,
- (466) 4-(2-((2-(4-)))-4-) ,
- (467) 4-(2-((2-(4-)))-4-) ,
- (468) 4-(2-((2-(4-)))-4-) ,
- (469) 4-(2-((2-(-1-)))-4-(3-)) ,
- (470) 4-(2-((2-(-1-)))-4-(3,5-)) ,
- (471) 4-(2-((2-(-1-)))-4-(3-)) ,
- (472) 4-(2-((2-(4-)))-4-) ,
- (473) 4-(2-((2-(-1-)))-4-(4- -2-)) ,
- (474) 4-(2-((2-(-1-)))-4-(3-)) ,
- (475) 4-(2-((2-(-1-)))-4-(3- -5-)) ,
- (476) 4-(2-((2-(-1-)))-4-(2,4,6-)) ,
- (477) 4-(2-((2-(-1-)))-4-(4-)) ,

- (478) 4-(2-((2-(-1-)))-4-(4-)) ,
- (479) 4-(2-((2-(-1-)))-4-(3-)) ,
- (480) 4-(2-((2-(-1-)))-4-(2-)) ,
- (481) 4-(2-((2-(-1-)))-4-(2- -5-)) ,
- (482) 4-(2-((2-(-1-)))-4-(4-(1,2,4- -1-))) ,
- (483) 4-(2-((2-(-1-)))-4-(2-)) ,
- (484) 4-(2-((2-(-1-)))-4-(2- -5-)) ,
- (485) 4-(2-((2-(-1-)))-4-(3,5-)) ,
- (486) 4-(2-((2-(-1-)))-4-(2- -6-)) ,
- (487) 4-(2-((2-(-1-)))-4-(2-)) ,
- (488) 4-(2-((2-(-1-)))-4-(2- -5-)) ,
- (489) 2-(2-((4- -2-(-1-)))-4-) ,
- (490) 4-(2-((2-(-1-)))-4-(2- -4,5-)) ,
- (491) 4-(2-((2-(-1-)))-4-(1- -1,2,3,4- -6-)) ,
- (492) 4-(2-((2-(-1-)))-4-(3-)) ,
- (493) 4-(2-((2-(-1-)))-4-(3- -5-)) ,
- (494) 4-(2-((2-(-1-)))-4-(4- -2-)) ,
- (495) 4-(2-((2-(-1-)))-4-(4- -2-)) ,
- (496) 4-(2-((2-(-1-)))-4-(2-)) ,
- (497) 4-(2-((2-(-1-)))-4-(4-)) ,
- (498) (2E)-3-(2-((4- -2-))-4-)-2- ,
- (499) 4-(2-((2-(4- -1-)))-4-(-1-)) ,
- (500) 3-(2-((2-(4- -1-)))-4-) ,
- (501) 3-(2-((2-(4- -1-)))-4-) ,
- (502) 3-(2-((2-(4- -1-)))-4-(-1-)) ,
- (503) 2-(2-((2-(4- -1-)))-4-) ,
- (504) 2-(2-((2-(4- -1-)))-4-) ,
- (505) 2-(2-((4- -2-))-4-) ,

- (506) 2-(2-((4- 2-(3,5-)))-4-) ,
- (507) 2-(2-((2-(-1-)))-4-) ,
- (508) 3-(2-((4- 2-(4- -3-)))-4-) ,
- (509) 3-(2-((4- 2-(3,5-)))-4-) ,
- (510) 3-(2-((4- 2-(4- -1,3- -6-)))-4-) ,
- (511) 2-(2-((2-(-1-)))-4-(2-)) ,
- (512) 2-(2-((2-(-1-)))-4-(2- -5-)) ,
- (513) 2-(2-((2-(-1-)))-4-(3-)) ,
- (514) 2-(2-((2-(-1-)))-4-(-3-)) ,
- (515) (2E)-3-(2-(3-)-4-(-1-))-2- ,
- (516) 2-(2-(3-(-2-))-4-(-1-)) ,
- (517) N- -3-(2-(2-(-2-))-4-(-1-)) ,
- (518) N- -3-(2-(2-(-2-))-4-(-1-)) ,
- (519) N- -3-(2-((3- -1-(4-)))-4-) ,
- (520) N- -3-(2-((3- -1-(4-)))-4-) ,
- (521) N-(-2-)-3-(2-((3- -1-(4-)))-4-) ,
- (522) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (523) N-(-2-)-3-(2-((3- -1-(4-)))-4-) ,
- (524) N-(3- -4-)-3-(2-((3- -1-(4-)))-4-) ,
- (525) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (526) N- -3-(2-((3- -1-(4-)))-4-) ,
- (527) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (528) N-((1,1'- -4-))-3-(2-((3- -1-(4-)))-4-) ,
- (529) N-((1,1'- -2-))-3-(2-((3- -1-(4-)))-4-) ,
- (530) N-(3,4-)-3-(2-((3- -1-(4-)))-4-) ,

- (531) N-(2,6-)-3-(2-((3- -1-(4-)))-4-)
- (532) N-(2,5-)-3-(2-((3- -1-(4-)))-4-)
- (533) N-(2,5-)-3-(2-((3- -1-(4-)))-4-)
- (534) N-((E)-2-)-3-(2-((3- -1-(4-)))-4-)
- (535) N-(-2-)-3-(2-((3- -1-(4-)))-4-)
- (536) N-(-2-)-3-(2-((3- -1-(4-)))-4-)
- (537) N-(7- -4-)-3-(2-((3- -1-(4-)))-4-)
- (538) N-(3,4-)-3-(2-((3- -1-(4-)))-4-)
- (539) N-(4-)-3-(2-((3- -1-(4-)))-4-)
- (540) N-(3-)-3-(2-((3- -1-(4-)))-4-)
- (541) N-(2-)-3-(2-((3- -1-(4-)))-4-)
- (542) N-(4-)-3-(2-((3- -1-(4-)))-4-)
- (543) N-(3-)-3-(2-((3- -1-(4-)))-4-)
- (544) N-(2- -4-)-3-(2-((3- -1-(4-)))-4-)
- (545) N-(3-)-3-(2-((3- -1-(4-)))-4-)
- (546) N-(4-)-3-(2-((3- -1-(4-)))-4-)
- (547) N-(4-)-3-(2-((3- -1-(4-)))-4-)
- (548) N-(2- -6-)-3-(2-((3- -1-(4-)))-4-)
- (549) N-(2-)-3-(2-((3- -1-(4-)))-4-)

- (550) N-(3-)-3-(2-((3- -1-(4-)))-4-) ,
- (551) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (552) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (553) N-(-1-)-3-(2-((3- -1-(4-)))-4-) ,
- (554) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (555) N-(5- -2-)-3-(2-((3- -1-(4-)))-4-) ,
- (556) N- -2-(2-((3- -1-))-4-) ,
- (557) N- -2-(2-((3- -1-))-4-(2-)) ,
- (558) N- -2-(2-((3- -1-))-4-(2-)) ,
- (559) N-(5- -2-)-3-(2-((3- -1-(4-)))-4-) ,
- (560) N-(-3-)-3-(2-((3- -1-(4-)))-4-) ,
- (561) N-(-3-)-3-(2-((3- -1-(4-)))-4-) ,
- (562) N-(1- -2-)-3-(2-((3- -1-(4-)))-4-) ,
- (563) N-(3,5- -4-)-3-(2-((3- -1-(4-)))-4-) ,
- (564) N- -3-(2-((3- -1-(4-)))-4-) ,
- (565) N-(5- -1-)-3-(2-((3- -1-(4-)))-4-) ,
- (566) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (567) N-(4-)-3-(2-((3- -1-(4-)))-4-) ,
- (568) N-(2-)-3-(2-((3- -1-(4-)))-4-) ,
- (569) N-(3-(3- -5- -1-))-3-(2-((3- -1-(4-)))-4-) ,
- (570) N-(-5-)-3-(2-((3- -1-(4-)))-4-) ,

- (571) (2E)-N- -3-(2-((3- -1-))-4-)-2- ,
- (572) N-(-2-)-3-(2-(4- -2-)-4-) ,
- (573) N-(-5-)-3-(2-(4- -2-)-4-) ,
- (574) N- -3-(2-(2-(-2-))-4-) ,
- (575) N- -3-(2-((3- -1-))-4-(-1-)) ,
- (576) N-(-5-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (577) N-(-5-)-3-(2-(2-(-2-))-4-) ,
- (578) N- -3-(2-(2-)-4-(-1-)) ,
- (579) N-(-5-)-3-(2-(2-)-4-(-1-)) ,
- (580) N-(5- -2-)-3-(2-(2-)-4-(-1-)) ,
- (581) N-(3,4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (582) N-(7- -4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (583) N-(3,4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (584) N-(3-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (585) N-(3- -4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (586) N-(3- -4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (587) N-(5- -2-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (588) N-(5- -2-)-3-(2-((3- -1-))-4-) ,
- (589) N- -3-(2-(2-)-4-) ,
- (590) N-(3- -4-)-3-(2-(2-(-2-))-4-(3-)) ,
- (591) N-(3-)-3-(2-(2-(-2-))-4-(3-)) ,
- (592) N-(3,4-)-3-(2-(2-(-2-))-4-(3-)) ,
- (593) N-(3- -4-)-3-(2-(2-(-2-))-4-(3-)) ,
- (594) N-(7- -4-)-3-(2-(2-(-2-))-4-(3-)) ,

- (595) N-(3,4-)-3-(2-(2-(-2-))-4-(3-)) ,
- (596) N-(5- -2-)-3-(2-(2-(-2-))-4-(3-)) ,
- (597) N-(3,4-)-3-(2-(2-)-4-(-1-)) ,
- (598) N-(3,4-)-3-(2-(2-(-1-))-4-(-1-)) ,
- (599) N-(3,4-)-3-(2-(2-())-4-(-1-)) ,
- (600) N-(3,4-)-3-(2-(2-(2 H- -2-))-4-(-1-)) ,
- (601) N-(3,4-)-3-(2-(2-(1H- -1-))-4-(-1-)) ,
- (602) N-(3,4-)-3-(2-(2-(2- -1-))-4-(-1-)) ,
- (603) N-(3,4-)-3-(2-(2-(1H- -1-))-4-(-1-)) ,
- (604) (2E)-N-(3,4-)-3-(2-(2-(-2-))-4-(-1-))-2- ,
- (605) N-(3,4-)-3-(2-(2-(-2-))-4-(4- -1-)) ,
- (606) N-(3,4-)-3-(2-(2-(-2-))-4-(4- -1-)) ,
- (607) N-(3,4-)-3-(2-(2-(-2-))-4-(-4-)) ,
- (608) N-(3,4-)-3-(2-(2-(-2-))-4-(-3-)) ,
- (609) N- -2-(2-(2-(-2-))-4-(-1-)) ,
- (610) N- -4-(2-(2-(-2-))-4-(-1-)) ,
- (611) N-(3,4-)-4-(2-(2-(-2-))-4-(-1-)) ,
- (612) N-(-3-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (613) N-(1- -2-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (614) N-(4- -2-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (615) N-(3,5- -4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (616) N-(-2-)-3-(2-(2-(-2-))-4-(-1-)) ,

- (617) N- -3-(2-((3- -1-(4-)))-4-) ,
- (618) N-(1- -2-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (619) N- -2-(2-(-2-))-4-(-1-) ,
- (620) N-(5- -2-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (621) N-(-3-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (622) N-(-3-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (623) N-(2,5-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (624) N-(4-)-3-(2-(2-(-2-))-4-(-1-)) ,
- (625) N-(3,4-)-3-(2-(2-)-4-(-1-)) ,
- (626) N-(3,4-)-3-(2-(2-(-1-))-4-(-1-)) ,
- (627) N- -3-(2-(2-(3-))-4-(-1-)) ,
- (628) N-(3,4-)-3-(2-(2-(3-))-4-(-1-)) ,
- (629) N-(3,4-)-3-(3-(3-)-4-(-1-)) ,
- (630) N-(3,4-)-3-(3-(3-(-1-))-4-(-1-)) ,
- (631) N- -3-(2-((-1-))-4-(-1-)) ,
- (632) N-(3,4-)-3-(2-((-1-))-4-(-1-)) ,
- (633) N- -3-(2-((-2-))-4-(-1-)) ,
- (634) N-(3,4-)-3-(2-((-2-))-4-(-1-)) ,
- (635) N- -3-(2-()-4-(-1-)) ,
- (636) N-(3,4-)-3-(2-()-4-(-1-)) ,
- (637) N-(3,4-)-3-(3-(3-(-2-))-4-(-1-)) ,
- (638) N- -3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (639) N-(3,4-)-3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (640) N- -3-(2-((3- -1-(3,5-)))-4-(-1-)) ,

- (641) N-(3,4-))-3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (642) (2E)-N-(3,4-)-2-)-3-(2-(2-(-2-))-4-(4- -1-)) ,
- (643) (2E)-N- -3-(2-(N- -N-)-4-(-1-))-2- ,
- (644) (2E)-N-(3,4-)-3-(2-(N- -N-)-4-(-1-))-2- ,
- (645) N-(3,4-)-3-(2-((2-(-1-)))-4-(-1-))) ,
- (646) N-(3,4-)-3-(2-(2-(-2-))-4-(-1-))) ,
- (647) N-(3,4-)-3-(2-(2-(-3-))-4-(-1-))) ,
- (648) N-(-5-)-3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (649) N-(3,4-))-3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (650) N-(3,4-)-2-(2-(2-(-2-))-4-(-1-))) ,
- (651) N-(3,4-)-3-(2-(2-(-2-))-4-)) ,
- (652) N-(3,4-)-3-(2-(3-)-4-(-1-))) ,
- (653) N-(3,4-)-3-(2-(2-)-4-(-1-))) ,
- (654) N-(3,4-))-3-(2-(2-(-2-))-4-(3- -2- -1-)) ,
- (655) N-(3,4-)-3-(2-(2-(-2-))-4-)) ,
- (656) N-(3,4-)-3-(2-(2-(-2-))-4-)) ,
- (657) N-(3,4-)-3-(2-(2-(-2-))-4-)) ,
- (658) N-(3,4-)-3-(2-(-1-)-4-(-1-))) ,
- (659) N-(3,4-)-3-(2-()-4-(-1-))) ,
- (660) N-(3,4-)-3-(2-(2-(3-))-4-(-1-))) ,
- (661) N-(3,4-)-3-(2-(2-(3-))-4-(-1-))) ,
- (662) N-(3,4-)-3-(2-(3-)-4-(-1-))) ,
- (663) N-(3,4-)-3-(2-(4-)-4-(-1-))) ,

- (664) (2E)-N-(3,4-)-3-(2-(2-(-2-))-4-(2- -1-))-2- ,
- (665) N-(3,4-)-3-(2-(2-(3-(-1-)))-4-(-1-)) ,
- (666) (2E)-N-(3,4-)-3-(2-(2-(-2-))-4-)-2- ,
- (667) N-(3,4-))-3-(2-((3- -1-(3,5-)))-4-(-4-)) ,
- (668) N-(3,4-))-3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (669) N-(3,4-)-2-(2-(3-(-2-))-4-(-1-)) ,
- (670) (2E)-N-(3,4-)-3-(2-(2-(-2-))-4-(-3-))-2- ,
- (671) (2E)-N-(3,4-)-3-(2-(2-(-2-))-4-)-2- ,
- (672) (2E)-N-(3,4-)-2-)-3-(2-(2-(-2-))-4-(N- -N-)) ,
- (673) N-(3,4-)-3-(2-(2-)-4-(2- -5-)) ,
- (674) N-(3,4-))-2-(N'- -N'-(2-(2-(-2-))-4-(-1-))) ,
- (675) N-(3,4-)-3-(2-(2-(-2-))-4-(N'- -N'-))) ,
- (676) N-(3,4-))-3-(2-(2-(-2-))-4-(N'- -N'-)) ,
- (677) N-(3,4-)-3-(2-((2E)-3- -2-)-4-(-1-)) ,
- (678) N-(3,4-)-3-(2-(2-(N'- -N'-))-4-(-1-)) ,
- (679) (2E)-N-(3,4-)-3-(2-(3-)-4-(-1-))-2- ,
- (680) N-(3,4-)-3-(2-(2-)-4-(3-)) ,
- (681) N- -N- -3-(2-(2-(-2-))-4-(-1-)) ,
- (682) N-(3,4-)-3-(2-(2-(-2-))-4-(-2-)) ,
- (683) N-(3,4-)-3-(2-(2-(-2-))-4-(-2-)) ,
- (684) N-(3,4-)-5-(2-(2-(-2-))-4-(-1-)) ,

- (685) (2E)-N-(3,4-)-3-(2-(-1-)-3-(2-(-2-))) -4-)-2- ,
- (686) (2E)-N-(3,4-)-3-(4-(-1-)-3-(2-(-2-))) -2-)-2- ,
- (687) N-(3,4-)-3-(2-(2-(4- -1-))) -4-(-1-)) ,
- (688) N-(3,4-)-3-(2-(2-(4- -1,2,3,6- -1-)))-4-(-) 1-)) ,
- (689) N-(3,4-)-3-(2-(2-(4- -1-))) -4-(-1-)) ,
- (690) N-(3,4-)-4-(2-(2-)-4-(3-)) ,
- (691) N-(3,4-)-4-(2-(2-(-2-)))-4-(3-)) ,
- (692) N-(3,4-)-3-(2-(5-)-4-(-1-)) ,
- (693) N-(3,4-)-2-(2-(2-(-2-)))-4-(-1-)) ,
- (694) N-(3,4-)-3-(2-(2-(-1-)))-4-(-1-)) ,
- (695) N-(3,4-)-3-(2-(2-(2- -1-)))-4-(-1-)) ,
- (696) N-(3,4-)-2-(2-(2-(-2-)))-4-(-1-)) ,
- (697) N-(3,4-)-3-(2-(2-(N- -N-)))-4-(-1-)) ,
- (698) N-(3,4-)-3-(2-(2-(N-(2-)-N-)))-4-(-1-)) ,
- (699) N-(3,4-)-3-(2-(3-(N- -N-)))-4-(-1-)) ,
- (700) N-(3,4-)-3-(2-(2-(-2-)))-4-(-1-)) ,
- (701) N- -3-(2-((3- -1-)))-4-) ,
- (702) N-(3,4-)-3-(2-(2- -2-(-2-)))-4-(3-)) ,
- (703) N-(3,4-)-3-(2-(2-(3-(-4-))))-4-(-1-)) ,
- (704) 3-(2-(5- -3-)-4-) ,
- (705) 3-(2-((3- -1-(4-))))-4-) ,
- (706) 3-(2-((3- -1-)))-4-) ,

- (707) $N-(3-1-(4-)))-2-(3-)-5-$,
- (708) $N-(3-1-(4-)))-2-(3-)-5-$,
- (709) $N-(3-1-(4-)))-2-(3-)-5-$,
- (710) $N-(3-1-(4-)))-2-(3-)-5-$,
- (711) $N-(2-(2-(2-)))-4-(1-))$,
- (712) $N-(3,4-)-N'-(2-(2-(2-)))-4-(1-))$,
- (713) $3-[4-2-[1-(4-)]-3-]$,
- (714) $N-(3-1-(4-)))-2-(2-(5-))-5-$,
- (715) $1-(2-(5-))-2-(4-2-)-4-$,
- (716) $N-(2-(2-(2-(2-)))-4-(1-))$,
- (717) $3-[2-[2-(2-)]-4-(1-)]$,
- (718) $3-(2-(2-(2-(2-)))-4-(1-)))-1,2,4-5-$,
- (719) $3-(2-(2-(2-(2-)))-4-(1-)))-1,2,4-5-$,
- (720) $3-(2-(2-(2-(2-)))-4-(1-)))-1,2,4-5-$,
- (721) $4-(2-(2-(2-(2-)))-4-(1-)))-1,2,3,5-2-$,
- (722) $3-(2-(N-N-(2-(2-)))-4-)$,
- (723) $3-(2-(N-N-(2-(2-)))-4-)$,
- (724) $3-(2-(2-(2-)))-4-(1-))$,
- (725) $3-(2-(2-(2-)))-4-(1-))$,
- (726) $3-(2-(2-(N-N-)))-4-(1-))$,
- (727) $3-(2-(2-(N-N-)))-4-(1-))$,
- (728) $3-(2-(2-(N-N-)))-4-(1-))$,
- (729) $3-(2-(2-(6--2-)))-4-(1-))$,
- (730) $3-(2-(2-(9-)))-4-(1-))$,
- (731) $3-(2-(2-(9,10--9--10-)))-4-(1-))$,
- (732) $3-(2-(5-)-4-(1-))$,
- (733) $3-(2-(5-1-)-4-(1-))$,
- (734) $3-(2-(5-1-)-4-(1-))$,
- (735) $3-(4-(1-)-2-(2-))$,

- (736) 3-(2-(2-(N- -N-))-4-(-1-)) ,
- (737) 3-(2-(2-(N- -N-))-4-(-1-)) ,
- (738) 3-(2-(2-(N- -N-))-4-(-1-)) ,
- (739) 3-(2-(2-(N-(2-)-N-))-4-(-1-)) ,
- (740) 3-(2-(3-(-10-))-4-(-1-)) ,
- (741) N-(3,4-)-3-(2-(5-)-4-(-1-)) ,
- (742) N-(3,4-)-3-(2-(5- -1-)-4-(-1-)) ,
- (743) N-(3,4-)-3-(2-(5- -1-)-4-(-1-)) ,
- (744) 3-(2-(N- -1-)-4-(-1-)) ,
- (745) N-(3,4-)-3-(2-(N- -1-)-4-(-1-)) ,
- (746) 3-(2-(2-(3- -1-)-4-)) -1,2,4- -5- ,
- (747) 2-(1- -3-(3- -1-) -4-) ,
- (748) 3-(1- -3-(3- -1-) -4-) ,
- (749) 3-(2-((3- -1-))-4-(3-)) ,
- (750) 1- -3-(3- -1-)-5- ,
- (751) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (752) 3-(2-((3- -1-))-4-) ,
- (753) 3-(2-((3- -1-))-4-(N- -N-)) ,
- (754) 3-(2-((3- -1-))-4-) ,
- (755) N-(3,4-)-3-(2-((3- -1-))-4-) ,
- (756) N-(3,4-)) ,
- (757) N-(3,4-)-3-(2-((3- -1-))-4-) ,
- (758) 3-(2-(2-(3- -1-)-4-)) -1,2,4- -5- ,
- (759) 3-(2-((3- -1-(3-)))-4-(3-)) ,
- (760) 3-(2-((3- -1-(3-)))-4-(3-)) ,
- (761) 3-(2-((3- -1-))-4-) ,
- (762) 3-(2-((3- -1-))-4-) ,

(763) N-(3,4-)-3-(2-((3- -1-)) -4-)

(764) 3-(1- -3-(3- -1-(3,5-)) -4-) ,

(765) 3-(1-(3-)-3-(3- -1-(3,5-)) -4-) ,

(766) 3-(2-((3- -1-(3,4-))) -4-(3-)) ,

(767) 3-(3- -1-(3- -1-) -7-) ,

(768) 3-(2-((3- -1-(3- -4-))) -4-(3-)) ,

(769) 3-(2-((3- -1-)) -4-) ,

(770) 3-(2-((3- -1-(3,5-))) -4-(3-)) ,

(771) 3-(2-((3- -1-(3,5-))) -4-) ,

(772) 3-(2-((3- -1-(3,5-))) -4-(-2-)) ,

(773) 3-(2-((3- -1-(3,5-))) -4-) ,

(774) 3-(2-((3- -1-(3,5-))) -4-(3-)) ,

(775) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(776) N-(4-)-3-(2-(2-(3-)) -4-(-1-))

(777) N-(4-)-3-(2-(2-(3-)) -4-(-1-))

(778) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(779) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(780) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(781) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(782) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(783) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(784) N-(3-)-3-(2-(2-(3-)) -4-(-1-))

(785) 3-(2-((3- -1-(3,5-))) -4-) ,

(786) 2-(2-((3- -1-(3,5-))) -4-) ,

- (787) 2-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (788) 3-(2-((3- -1-(3,5-)))-4-(N- -N-)) ,
- (789) 3-(2-((3- -1-(3,5-)))-4-((N-))) ,
- (790) 3-(2-((3- -1-(3,5-)))-4-) ,
- (791) 3-(2-((3- -1-(3,5-)))-4-(N- -N-)) ,
- (792) 3-(3-((3- -1-(3,5-)))-5-(3-)) ,
- (793) 3-(3-((3- -1-(3,5-)))-5-(3-)) ,
- (794) 4-(3-((3- -1-(3,5-)))-5-(3-)) ,
- (795) 3-(2-(1-(3,5-))-4-(3-)) ,
- (796) 3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (797) 3-(2-((1-(3,5-)))-4-(3-)) ,
- (798) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (799) 3-(2-((1R)-1-(-1-))-4-(2-)) ,
- (800) 3-(2-((1R)-1-(-1-))-4-(4-)) ,
- (801) 3-(2-((3- -1-(3,5-)))-4-(2-(-1-))) ,
- (802) 3-(2-((1R)-1-(-1-))-4-(4-)) ,
- (803) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (804) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (805) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (806) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (807) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (808) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (809) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (810) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (811) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (812) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (813) 3-(2-((3- -1-(3,5-)))-4-(2,3-)) ,
- (814) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (815) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,

- (816) 3-(2-((3- -1-(3,5-)))-4-(2,4-)) ,
- (817) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (818) 3-(2-((3- -1-(3,5-)))-4-(2,5-)) ,
- (819) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (820) 3-(2-((3- -1-(3,5-)))-4-(2,6-)) ,
- (821) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (822) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (823) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (824) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (825) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (826) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (827) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (828) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (829) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (830) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (831) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (832) 3-(2-((3- -1-(3,5-)))-4-(-1-)) ,
- (833) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (834) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (835) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (836) 3-(2-((3- -1-(3,5-)))-4-(4-t-)) ,
- (837) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (838) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (839) 3-(2-((3- -1-(3,5-)))-4-(2- -4-)) ,
- (840) 3-(2-((3- -1-(3,5-)))-4-(2- -4-)) ,
- (841) 3-(2-((3- -1-(3,5-)))-4-(2,5-)) ,
- (842) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (843) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (844) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,

- (845) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (846) 3-(2-((3- -1-(3,5-)))-4-(2- -6-)) ,
- (847) 3-(2-((3- -1-(3,5-)))-4-(2,5-)) ,
- (848) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (849) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (850) 3-(2-((3- -1-(3,5-)))-4-(2,4-)) ,
- (851) 3-(2-((3- -1-(3,5-)))-4-(3,5-)) ,
- (852) 3-(2-((3- -1-(3,5-)))-4-(1- -3- -5-)) ,
- (853) 3-(2-((3- -1-(3,5-)))-4-(2- -6-)) ,
- (854) 3-(2-((3- -1-(3,5-)))-4-(2,3-)) ,
- (855) 3-(2-((3- -1-(3,5-)))-4-(2,6-)) ,
- (856) 3-(2-((3- -1-(3,5-)))-4-(2- -4-)) ,
- (857) 3-(2-((3- -1-(3,5-)))-4-(3,5-)) ,
- (858) 3-(2-((3- -1-(3,5-)))-4-(2,4- ())) ,
- (859) 3-(2-((3- -1-(3,5-)))-4-(3,4-)) ,
- (860) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (861) 3-(2-((3- -1-(3,5-)))-4-(3,4-)) ,
- (862) 3-(2-((3- -1-(3,5-)))-4-(2- -1-)) ,
- (863) 3-(2-((3- -1-(3,5-)))-4-(2,3,6-)) ,
- (864) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (865) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (866) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (867) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (868) 3-(2-((3- -1-(3,5-)))-4-(1,3- -4-)) ,
- (869) 3-(2-((3- -1-(3,5-)))-4-(2,4-)) ,
- (870) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (871) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,

- (872) 3-(2-((3- -1-(3,5-)))-4-(2,5-)) ,
- (873) 3-(2-((3- -1-(3,5-)))-4-(2- -4-)) ,
- (874) 3-(2-((3- -1-(3,5-)))-4-(4- -3-)) ,
- (875) 3-(2-((3- -1-(3,5-)))-4-(3- -5-)) ,
- (876) 3-(2-((3- -1-(3,5-)))-4-(4- -3-)) ,
- (877) 3-(2-((3- -1-(3,5-)))-4-(3- -4-)) ,
- (878) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (879) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (880) 3-(2-((3- -1-(3,5-)))-4-(2,4,5-)) ,
- (881) 3-(2-((3- -1-(3,5-)))-4-(3-(4-))) ,
- (882) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (883) 3-(2-((3- -1-(3,5-)))-4-(2,3,4-)) ,
- (884) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (885) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (886) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (887) 3-(2-((3- -1-(3,5-)))-4-(3- -5-)) ,
- (888) 3-(2-((3- -1-(3,5-)))-4-(4- -3-)) ,
- (889) 3-(2-((3- -1-(3,5-)))-4-(4- -1-)) ,
- (890) 3-(2-((3- -1-(3,5-)))-4-(2- -3,5- (t-))) ,
- (891) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (892) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (893) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (894) 3-(2-((3- -1-(3,5-)))-4-(4- -3-)) ,
- (895) 3-(2-((3- -1-(3,5-)))-4-((3,5- -4-))) ,
- (896) 4-(2-((1R)-1-(-1-))-4-(2,3,4,5,6-)) ,
- (897) 3-(2-((3- -1-(3,5-)))-4-([e]1,4- -6-)) ,
- (898) 3-(2-((3- -1-(3,5-)))-4-(2,4,6-)) ,

- (899) 3-(2-((3- -1-(3,5-)))-4-(2- -4,5-)))
 ,
- (900) 3-(2-((3- -1-(3,5-)))-4-(3- -4-)))
 ,
- (901) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)))
 ,
- (902) 3-(2-((3- -1-(3,5-)))-4-(2,5-))) ,
- (903) 3-(2-((3- -1-(3,5-)))-4-(3- -4-))) ,
- (904) 3-(2-((3- -1-(3,5-)))-4-(3-))) ,
- (905) 3-(2-((3- -1-(3,5-)))-4-(4-))) ,
- (906) 3-(2-((3- -1-(3,5-)))-4-(2,3,4,5,6-))) ,
- (907) 3-(2-((3- -1-(3,5-)))-4-(2,5- ())))
 ,
- (908) 3-(2-((3- -1-(3,5-)))-4-(2- -5-))) ,
- (909) 3-(2-((3- -1-(3,5-)))-4-((4- -1-)))) ,
- (910) 3-(2-((3- -1-(3,5-)))-4-(4'- -1,1'- -2-)))
)) ,
- (911) 3-(2-((3- -1-(3,5-)))-4-(2-))) ,
- (912) 3-(2-((3- -1-(3,5-)))-4-(3-))) ,
- (913) 3-(2-((3- -1-(3,5-)))-4-(2-(5- -2- -4-))))
 ,
- (914) 3-(2-((3- -1-(3,5-)))-4-(2- -3-))) ,
- (915) 3-(2-((3- -1-(3,5-)))-4-(2-))) ,
- (916) 3-(2-((3- -1-(3,5-)))-4-(2,4- ())))
 ,
- (917) 3-(2-((3- -1-(3,5-)))-4-(2-))) ,
- (918) 3-(2-((3- -1-(3,5-)))-4-(3-))) ,
- (919) 3-(2-((3- -1-(3,5-)))-4-(2- -5-))) ,
- (920) 3-(2-((3- -1-(3,5-)))-4-(2,3,4,5,6-))) ,
- (921) 3-(2-((3- -1-(3,5-)))-4-(2,6-))) ,
- (922) 3-(2-((3- -1-(3,5-)))-4-(4-))) ,
- (923) 3-(2-((3- -1-(3,5-)))-4-(4-))) ,

- (924) 3-(2-((3- -1-(3,5-)))-4-(2,3,5,6-)) ,
- (925) 3-(2-((3- -1-(3,5-)))-4-(2- -3,6-)) ,
- (926) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (927) 3-(2-((3- -1-(3,5-)))-4-(3,4-)) ,
- (928) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (929) 3-(2-((3- -1-(3,5-)))-4-(6- -2- -3-)) ,
- (930) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (931) 3-(2-((3- -1-(3,5-)))-4-(2- -6- -3-)) ,
- (932) 3-(2-((3- -1-(3,5-)))-4-(2-(4-))) ,
- (933) 4-(2-((1R)-1-(-1-))-4-(4-)) ,
- (934) 4-(2-((1R)-1-(-1-))-4-(4-N-)) ,
- (935) 4-(2-((1R)-1-(-1-))-4-(4-N,N-)) ,
- (936) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (937) 3-(2-((3- -1-(3,5-)))-4-(3-(4-))) ,
- (938) 3-(2-((3- -1-(3,5-)))-4-(3- -2- -6-)) ,
- (939) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (940) 3-(2-((3- -1-(3,5-)))-4-(-2-)) ,
- (941) 3-(2-((3- -1-(3,5-)))-4-(4- -3-)) ,
- (942) 3-(2-((3- -1-(3,5-)))-4-(3- -2-)) ,
- (943) 3-(2-((3- -1-(3,5-)))-4-(2,3,5-)) ,
- (944) 3-(2-((3- -1-(3,5-)))-4-(4-(-2-))) ,
- (945) 3-(2-((3- -1-(3,5-)))-4-(3-(4-t-))) ,
- (946) 3-(2-((3- -1-(3,5-)))-4-(4-)) ,
- (947) 3-(2-((3- -1-(3,5-)))-4-(4-(4-))) ,
- (948) 3-(2-((3- -1-(3,5-)))-4-(2,3-)) ,
- (949) 3-(2-((3- -1-(3,5-)))-4-(3,5-)) ,

- (950) 3-(2-((3- -1-(-1-)))-4-(4-)) ,
- (951) 3-(2-((3- -1-(-1-)))-4-(2,5-)) ,
- (952) 4-(2-((1R)-1-(-1-))-4-(2-)) ,
- (953) 3-(2-((3- -1-(-1-)))-4-(3-)) ,
- (954) 3-(2-((3- -1-(3,5-)))-4-(3,4-)) ,
- (955) 3-(2-((3- -1-(3,5-)))-4-(3- -4-)) ,
- (956) 3-(2-((3- -1-(3,5-)))-4-(2- -6-)) ,
- (957) 3-(2-((3- -1-(3,5-)))-4-(3-(3-))) ,
- (958) 3-(2-((3- -1-(3,5-)))-4-(3- -2- -5-)) ,
- (959) 3-(2-((3- -1-(3,5-)))-4-(2,3-)) ,
- (960) 3-(2-((3- -1-(3,5-)))-4-(2,3- -4-)) ,
- (961) 3-(2-((3- -1-(3,5-)))-4-(3- -2-)) ,
- (962) 3-(2-((3- -1-(3,5-)))-4-(3- -2,6-)) ,
- (963) 3-(2-((3- -1-(3,5-)))-4-(3,4,5-)) ,
- (964) 3-(2-((3- -1-(3,5-)))-4-(4- -3-)) ,
- (965) 3-(2-((3- -1-(3,5-)))-4-(3-(4-))) ,
- (966) 3-(2-((3- -1-(3,5-)))-4-(2,3,6-)) ,
- (967) 3-(2-((3- -1-(3,5-)))-4-(2,3,5,6-)) ,
- (968) 3-(2-((3- -1-(3,5-)))-4-(3- -4-)) ,
- (969) 3-(2-((3- -1-(3,5-)))-4-(4-(4-))) ,
- (970) 3-(2-((3- -1-(3,5-)))-4-(2-)) ,
- (971) 3-(2-((3- -1-(3,5-)))-4-(5- -2-)) ,
- (972) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (973) 3-(2-((3- -1-(3,5-)))-4-(2- -5-)) ,
- (974) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (975) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (976) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,

- (977) 3-(2-((3- -1-(3,5-)))-4-(3-)) ,
- (978) 4-(2-(((1R)-1-(-1-))-4-(2-))) ,
- (979) 4-(2-(((1R)-1-(-1-))-4-(2-))) ,
- (980) 4-(2-(((1R)-1-(-1-))-4-(2-))) ,
- (981) 4-(2-(((1R)-1-(-1-))-4-(2-))) ,
- (982) 4-(2-(((1R)-1-(-1-))-4-(4-))) ,
- (983) 4-(2-(((1R)-1-(-1-))-4-(4-))) ,
- (984) 4-(2-(((1R)-1-(-1-))-4-(3-))) ,
- (985) 4-(2-(((1R)-1-(-1-))-4-(3-))) ,
- (986) 3-(2-((3- -1-(3,5-)))-4-(4- -2,6-))) ,
- (987) 3-(2-((3- -1-(3,5-)))-4-(2-))) ,
- (988) 3-(2-((3- -1-(3,5-)))-4-(4- -2-))) ,
- (989) 3-(2-((3- -1-(3,5-)))-4-(4- -3-))) ,
- (990) 3-(2-((3- -1-(3,5-)))-4-(2- -4-))) ,
- (991) 3-(2-((3- -1-(3,5-)))-4-(3-))) ,
- (992) 4-(2-(((1R)-1-(-1-))-4-(2-))) ,
- (993) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2,5-))) ,
- (994) 3-(2-(((1S)-3- -1-(3,5-)))-4-(2,5-))) ,
- (995) 4-(2-(((1R)-1-(-1-))-4-)) ,
- (996) 4-(2-(((1R)-1-(-1-))-4-(-2-))) ,
- (997) 4-(2-(((1R)-1-(-1-))-4-(2-))) ,
- (998) 3-(2-(((1R)-3- -1-(3,5-)))-4-(3-))) ,
- (999) 2-(2-(((1R)-3- -1-(3,5-)))-4-(2-))) ,
- (1000) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2-))) ,
- (1001) 3-(2-(((1R)-3- -1-(3,5-)))-4-(4-))) ,
- (1002) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2-))) ,
- (1003) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2-))) ,
- (1004) 3-(2- -4-(2,5-)) ,

- (1005) 3-(2-((1-(3,5-)))-4-(2,5-)) ,
- (1006) 3-(2-((1-(3,5-)))-4-(2,5-)) ,
- (1007) 3-(2-(((1R)-3- -1-(3,5-)))-4-(3-)) ,
- (1008) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2-)) ,
- (1009) 3-(2-((N-(2-)-N-(3,5-)))-4-(2,5-)) ,
- (1010) 3-(2-(1- -1-(3,5-)))-4-(2,5-)) ,
- (1011) 3-(2-(4-(3,5-))-4-)-4-(2,5-)) ,
- (1012) 3-(2-(((1R)-3- -1-(3,5-)))-4-(3-)) ,
- (1013) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2,4-)) ,
- (1014) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2,5-)) ,
- (1015) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2-)) ,
- (1016) 3-(2-(1- -1-(3,5-)))-4-(2,5-)) ,
- (1017) 3-(2-(((1R)-3- -1-(3,5-)))-4-) ,
- (1018) 3-(2-(((1R)-3- -1-(3,5-)))-4-(-2-)) ,
- (1019) 3-(2-((4-(3,5-))-4-)-4-(2- -6-)) ,
- (1020) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2-)) ,
- (1021) 3-(2-(((1R)-3- -1-(3,5-)))-4-(3-)) ,
- (1022) 3-(2-(4-(3,5-))-4-)-4-(2,5-)) ,
- (1023) 3-(2-(1- -4-(3,5-))-4-)-4-(2,5-)) ,
- (1024) 3-(2-(1,1- -4-(3,5-))-4-)-4-(2,5-)) ,
- (1025) 3-(2-((4-(3,5-))-4-)-4-(3-)) ,
- (1026) 3-(2-((2,6- -4-(3,5-))-4-)-4-(2,5-)) ,
- (1027) 3-(2-((4-(3,5-))-4-)-4-(2,3,6-)) ,
- (1028) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2- -6-)) ,
- (1029) 3-(2-((4-(3,5-))-4-)-4-(2- -5-)) ,

- (1030) 3-(2-((4-(3,5-)) -4-))-4-(2- -5-)) ,
- (1031) 3-(2-((4-(3,5-)) -4-))-4-(2,5-)) ,
- (1032) 3-(2-((4-(3,5-)) -4-))-4-) ,
- (1033) 3-(2-((4-(3,5-)) -4-))-4-(3-)) ,
- (1034) 3-(2-((4-(3,5-)) -4-))-4-(3-)) ,
- (1035) 3-(2-((4-(3,5-)) -4-))-4-(2,5-)) ,
- (1036) 3-(2-((1- -4-(3,5-)) -4-))-4-(2,5-)) ,
- (1037) 3-(2-((4-(3,5-)) -4-))-4-(2-)) ,
- (1038) 3-(2-((4-(3,5-)) -4-))-4-(2-)) ,
- (1039) 3-(2-((4-(3-)) -4-))-4-(2,5-)) ,
- (1040) 3-(2-((4-(-1-)) -4-))-4-(2,5-)) ,
- (1041) 3-(2-((1- -4-(3,5-)) -4-))-4-(2,5-)) ,
- (1042) 3-(2-((1- -4-(3,5-)) -4-))-4-(2,5-)) ,
- (1043) 3-(2-(((1R)-3- -1-(3,5-)))-4-(2,3,6-)) ,
- (1044) 2-(2-((3- -1-(3,5-)))-4-(2- -6-)) ,

11.

5 ,

- (1) (2E)-3-(2-(2-(2,5,7,8- -6- -2-))-4-)-2- ,
- (2) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (3) 3-(2-(2-(-2-))-4-) ,
- (4) 3-(2-(2-(-2-))-4-) ,
- (5) 3-(2-(2-(-2-))-4-(1- -1-)) ,
- (6) 3-(2-(((1R)-1-(-1-)))-4-) ,
- (7) 3-(2-((3- -1-))-4-) ,
- (8) 3-(2-((3- -1-))-4-) ,
- (9) 3-(2-((3- -1-))-4-) ,

- (10) 2-(2-((4- -2-(-1-)))-4-) ,
- (11) 2-(2-((4- -2-(-1-)))-4-) ,
- (12) 4-(2-((2-(-1-)))-4-) ,
- (13) 4-(2-((2-(-1-)))-4-) ,
- (14) 4-(2-((2-(-1-)))-4-) ,
- (15) 4-(2-((2-(-1-)))-4-) ,
- (16) 3-(2-((4- -2-))-4-) ,
- (17) 4-(2-((4- -2-(-1-)))-4-) ,
- (18) 4-(2-((4- -2-))-4-) ,
- (19) 4-(2-((2-(-1-)))-4-) ,
- (20) N-(3,4-)-3-(2-(2-(-2-))-4-) ,
- (21) N-(3,4-)-3-(2-(2-(-2-))-4-) ,
- (22) N-(3,4-)-3-(2-(2-(-2-))-4-(1- -1-)) ,
- (23) 3-(2-((3- -1-))-4-) ,
- (24) N-(3,4-)-3-(2-((3- -1-))-4-) ,
- (25) 3-(2-((3- -1-(3,5-)))-4-) ,
- (26) 3-(2-(-1-)-4-) ,
- (27) 3-(2-(1-(-2-))-4-) ,
- (28) 3-(2-((3- -1-(-1-)))-4-) ,
- (29) 3-(2-(4- -2-))-4-) ,
- (30) 3-(2-((1R)-1-)-4-) ,
- (31) 4-(2-((1R)-1-(-1-))-4-) ,
- (32) 3-(2-((1R)-1-(4-))-4-) ,
- (33) 3-(2-(1-(4-))-4-) ,
- (34) 3-(2-((1R)-1- -1-) -4-) ,
- (35) 3-(2-(1- -3-) -4-) ,
- (36) 3-(2-((1R)-1-(4-))-4-) ,
- (37) 3-(2- -4-) ,

- (38) 3-(2-((3- -1-(3,5-)))-4-) ,
- (39) 3-(2-((1R)-1-1,2,3,4- -1-) -4-) ,
- (40) 3-(2-((1R)-1-(1,1'- -4-))-4-) ,
- (41) 3-(2-(-)-4-) ,
- (42) 4-(2-((3- -1-(3,5-)))-4-) ,
- (43) 4-(2-((3- -1-(3,5-)))-4-) ,
- (44) 4-(2-(3- -1-))-4-) ,
- (45) 4-(2-(1-(-1-))-4-) ,
- (46) 4-(2-(1-(-1-))-4-) ,
- (47) 4-(2-((3- -1-(-1-)))-4-) ,
- (48) 4-(2-((3- -1-(4- -3-)))-4-) ,
- (49) 3-(2-(((1R)-3- -1-(3,5-)))-4-) ,
- (50) 3-(2-((4-(3,5-) -4-))-4-) ,
- (51) 3-(2-((4-(3,5-) -4-))-4-) ,
- (52) 3-(2-(((1R)-3- -1-(3,5-)))-4-) ,
- (53) 3-(2-((4-(-1-) -4-))-4-) ,
- (54) 4-(2-((4-(-1-) -4-))-4-) ,
- (55) 4-(2-((4-(3,5-) -4-))-4-) ,
- (56) 2-(2-((3- -1-(3,5-)))-4-) ,

12.

6 ,

- (1) 4-(2-(-1-) -4-) ,
- (2) 3-(6- -1-(2-(-1-)) -3-) ,
- (3) N-(3,4-)-3-(6- -1-(1-(-1-)) -3-) ,

13.

7 ,

- (1) 4-(3- -1-)-2- ,
- (2) 7-(3- -1-)-2- ,
- (3) 2-(7-(3- -1-) -1-) ,

- (4) 2-(7-(3- -1-) -3-) ,
- (5) 7-(3- -1-) ,
- (6) 2-(7-(3- -1-) -1-) ,
- (7) 3-(7-(3- -1-) -1-) ,
- (8) 3-(8-(3- -1-)-1,2,3,4- -1-) ,
- (9) 2-(8-(3- -1-(3,5-))-1,2,3,4- -1-) ,
- (10) 2-(7-((3- -1-(3,5-))) -1-) ,
- (11) 8-(3- -1-(3,5-))-2- ,
- (12) 7-(3- -1-(3,5-))-2- ,
- (13) 2-(7-(3- -1-(3,5-)) -2-) ,
- (14) 7-((2-(-1-)))-2- ,
- (15) 7-((2-(-1-)))-2- ,
- (16) 7-((4- -2-(-1-)))-2- ,
- (17) 2-(1-(2-(-1-)) -3-) ,
- (18) 2-(2- -1-(2-(-1-)) -3-) ,
- (19) 3-(1-(2-(-1-)) -3-) ,
- (20) 3-(2- -1-(2-(-1-)) -3-) ,
- (21) N-(3,4-)-2-(1-(1-(-1-)) -3-) ,
- (22) N-(3,4-)-2-(2- -1-(1-(-1-)) -3-) ,
- (23) N-(3,4-)-3-(1-(1-(-1-)) -3-) ,

14.

8 ,

- (1) (2E)-3-(2-(6-)-4-(-1-))-2-
- (2) 3-(2-(6-)-4-(-1-)) ,
- (3) N-(3,4-)-3-(2-(6-)-4-(-1-)) ,

15.

1 ,

- (1) (2E)-3-(2-(2-(-2-))-4-)-2- ,
- (2) 4-(2-((2-(-1-)))-4-) ,

